SEQUENCE LISTING

<110> Salceda, Susana
Macina, Roberto
Hu, Ping
Recipon, Herve
Karra, Kalpana
Cafferkey, Robert
Sun, Yongming
Liu, Chenghua

<120> Compositions and Methods Relating to Ovarian Specific Genes and Proteins

<130> DEX-0315

<150> 60/268,290
<151> 2001-02-13

<150> 60/268,834
<151> 2001-02-15

<160> 129

<170> PatentIn version 3.1

<210> 1
<211> 829
<212> DNA
<213> Homo sapien

<400> 1
cgtggtcgcg gcgaggtaca agctttttt ttttttttt ttttttttt ggcaaaaaaa 60

aataggctcc gttttatttt cttccattgg atccaatggg catcttttg aaagcctgtc 120

tgtgtgccaa cccttccccc aaaggaggtt atctcaggtg ggtggagcca agttctcacg 180

gggtggaaag gagaccgtgg acacacacaa gagaagaacc tccaaagccc tcctccatta 240

tgtggcagag aattcaacgc tgggcgtacc tcagtggctc aatagcgtgt ctccgtggtg 300

ctgacaattg tcgtacctcc gcctcacaat tctcccacca aacaaaaata tgtgacacaa 360

acacgcagcc aggggcgagc ccgaccgacg cccgcaaggc tcggcgccca aaatcaccgc 420

gaccccgacc agcgccagcg ccccgacaag cacccgggca acacccccac agcacgaccg 480

gcgcggccat cacaacgggc cccaccgccc aaagacgaga ggccaccgac gcagagaaca 540

agaggaagag aacgagacag agaacacgaa gaaccacagg gcaaacgtac gagcaaacaa 600

aaaaaagaaa aaaaaaaacc aagagggacg caggagacga cggacgcgcc agaaagacaa 660

agagacaagc aaagagaaat aagggaaaag caaaaagagg aaggtccaag caggagagaa 720

aaaagaagca acgagccaca aaacaggagc ataaagaaaa ggacagaaaa gcaccaagag 780

gacaaacaaa ggagggagaa cagaacacga aagacgaaag agaagaaaa 829

<210> 2
<211> 766
<212> DNA
<213> Homo sapien

<400> 2
atatgactca tatagcgaat ggtgcatcta atcatctcga gcggcgcagt gtgatggatc 60

gcccgggcag gtcggctact ggaggaggct gtgaggaaga aggggtcgga ggagaggagg 120

agaccccaca agggaggagg aggaagaggc tgctacccgc ccgctgccgc ccccgtactc 180

ggagacccga ctcgcatggc gtcccgatga tgcgcaggct caagaagaac ttgtgccctg 240

atgtcgggaa atgtttagtc gtactgatct gaacgtttat ctaacgtaca cttttgtatt 300

tttttttta atttgaagga acactgatga agcccgtgcc ataccctcc cgagtctaat 360

aaaacggtat aatcaaaaaa aaaaaaaaaa aaacaaaaaa aggcttgggg ggtacctctg 420

tgggccaaag gcgtggtccc gtggggtgag aaatgggtta cccggcctca aaattctccc 480

caacaacttt agagaggcaa caaccccgca aacaaacaca gagagcaagc agccagagac 540

agggcaacaa cacaaaagca cacagacaga aggagggcgc agcagagggg acacaagcga 600

cgccagagag aggccagaca caggcgcacc agaagagaag agagagaacg accgggcggg 660

aagagcagaa ggagaagcga cagcagcgag aagagcaagg gacaagaggc gacagagaga 720

ggaagaggca accggcaaac gcacaggacg ggcaacaggc gcgaaa 766

<210> 3
<211> 133
<212> DNA
<213> Homo sapien

<400> 3
acttttaaa attaaactgg taaacagaca ttagaattac caatgtaaac tttatatcta 60

aaaccaaaat caattacaaa ggatcattat tttccaaagt agatactttt tttagtgctg 120

ttcagttttt ctg 133

<210> 4
<211> 280
<212> DNA
<213> Homo sapien

<400> 4
cggccgtccg ggcaggtatt taattgatta gaagacaagt tttaaggtat tttataatga 60

cttccttatg acaaatatct catcagaaat ctactgccta tctgatatct gactccatgc 120

gtgtatacgc gtgtagctca gtctattccc agcatagagg gtcatttgat gtacacgtct 180

atttgtatta ccatggctac gttggtgtca ctaccttgac gatgatattt agcagtgtac 240

tttttgggta tggttttggg gttatttggt tgttgttaaa 280

<210> 5
<211> 1247
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (347)..(347)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (446)..(446)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (514)..(515)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (666)..(666)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (732)..(732)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (382)..(382)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (981)..(982)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (997)..(998)
<223> a, c, g or t

<400> 5
aaaaaaaaaa aaaagaagaa tgaatacgac acactatagg gtccttggtt tctctagatg 60

actgctcgag ccgcgactta tgtgatggat gagcgagacg cccgggcagg tacctggaga 120

caggtgcagt ccctcacctg tgaaggtgga tgcccttgaa atggaaccaa tgagtccctg 180

ggaacgccta gactgcgtga aactgcgaag cagagacgtt ggccgctctg cacacgctgc 240

ctacatcgta ccatgcacac atatctgcgc ccgcctggcg agcgatggag acttccacga 300

actcattgaa ggcacgtgaa gactgtgctc tccgtcatcc tgttcgntgg aaatagccaa 360

cgcaacctga cctcgaatct gnttagagta atggtgcccg tagcagcatc ttggagtact 420

ctggtcgcac cgtagcacgg tcaagncttg tctggcaagt gtccgagtgg gaggagcgag 480

gaatattcgt ccttgctctg ctctcctata tacnncttgt tcctaccact cgagaaccgt 540

ggagggggat agagcgtaaa ctcgttggac tctcatcgtc cccatctag gcttagaagt 600

acctcatcgt gcgaagagac atgggacgac cgtgtgctgg gaatttaccc gggccggctc 660

tcgtanagaa catgatgaag gaatgagatc taggggatta actccaagac cgtagagagc 720

tatcctctaa gnctagtaca accgcattcg gatccttttg cacataaaac acattggcaa 780

caacaccctc agtggcaagc caagtgagta ttaacccagg cgagagcaaa taacagagaa 840

gcacacatcc cgataaatct taagagcaaa accagtccct ttccaagttg ggcctttctg 900

gccagggttt tccctccagg gaagcggcaa ggactagcat tctcgggaca ctacgcgaca 960

taaaggcctc ttagcttcct nntaaacaac ccgaacnnac tccttaccaa ggacttctac 1020

gaacacacac aggtttacca aacataaatc taggtttacc aggaaaaaat ctttgtgcct 1080

agaaataact ttttacacag ggtatttttg aataccatct aaaactggct ttttttttcc 1140

ccagcaagta tcccaccaac tgtggtcctg gcttcaataa atcttgggga aaactccgaa 1200

aaaaacaaaa accaaaacaa aaggcggggg aacaggggca caccggc 1247

<210> 6
<211> 355
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (306)..(306)
<223> a, c, g or t

<400> 6
gcccgatgaa gatcaccaca tgggcgatgg tgccctagat gcatgccgag cggcgcagtg 60

tgatggatac gaatgtaaat attggtgtcg ttgctcgaca ttttagactt gaaagcgata 120

tgctgcgagt ataatgtagt taaccatatt aggtggcgag atattcaata aatagtttac 180

atctgtcgaa aaaaaaaaaa aaaaaaaaaa aaaaggcgcg ggggggtccc ccggggccca 240

aggcggggcc ccgggggggaa attggttccc gcggccccaa attccccccа aaaataagaa 300

aaaacntggg acaaccaact cccccgacct cccctccaac ccacccacaa caaaa 355

<210> 7
<211> 957
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (519)..(519)
<223> a, c, g or t

<400> 7
ttgggcttta ctaatgcatg ctcgagcggc cgccaagtgt gatggatgcg tggtcgcggc 60

cgaggtacgc ggtcagcagc tatctgagcc tgacggcctg atgcagtgtg agagtcccac 120

agaagctaca gcctgcacag agtcttagct gcatgaaggg agacaccgtg gatgaagaca 180

gtggtcccct acagaaatgt tctataggtt ctctaacacg ctcagccccc actaccaatg 240

gcgagactag cacgctgcag ggatcccaag ggagaggggt ctctccatcc acaccacaca 300

agggcgagtc aaagccctta tcatcgcgca tgtcgacgtc atgtaaaagc gcctacaaat 360

aagatattct gcacttggtt gaaatgtcct acatacataa caaagacaca tactcaacta 420

cacggagtcg atcgatcacc ggtccgtgcg ggcgaatgcc acttcgctct cgtgcgtcca 480

atgatgactc atagttacac accggtgtgc ggcgcacanc tatgagtgga tattcgcccg 540

ggatcacaga ccatggattt ccccccgtgg ctgatcgaat atgcggtacg cggcatcaaa 600

ttcgcccggg agctacagac ctaaaaaagt tgaccgcgca gcggccgaag aacaggcttt 660

cgacggaatg ccaaacacag agggccgcag accggcaggc gaccccgggc ggaggagccc 720

cactgcggca gggcgaggcg aaggacagat acgaggacgc gagccacacg cgcgcccgtg 780

catgagacgg agacggccga gggagcgcag acccgaagca gcgcgccaag agcgaccgcg 840

caagccacac gcgcctaggc cctgcgccac ggccggccac gcgcgagagg cggggcggag 900

caccgcagga gaccgaccac ggacccgacc ggcccagggc agcagagcca ccgagct 957

<210> 8
<211> 1460
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1022)..(1022)
<223> a, c, g or t

<400> 8
ggcctgggct ctgctattcc tcaccctcct cactcagggc acagggtcct gggcccagtc 60

tgccctgact cagtctgcct ccgtgtctgg gtctcctgga cagtcgatca ccatctcctg 120

cactggaacc agcagtcacg ttggtggtta taactatgtc tcctggtacc aacagcaccc 180

aggcaaagcc cccaaactca tcatttatga ggtcagtaat cggccctcag ggtttctaa 240

tcgcttctct ggctccaagt ctggcaacac ggcctccctg accatctctg ggctccaggc 300

tgaggacgag gctgattatt actgctgctc atatacaaga agtacttctc atgtcttcgg 360

aactgggacc aaggtcaccg tcctaggtca gcccaaggcc aaccccactg tcactctgtt 420

cccgccctcc tctgaggagc tccaagccaa caaggccaca ctagtgtgtc tgatcagtga 480

cttctacccg ggagctgtga cagtggcctg gaaggcagat ggcagccccg tcaaggcggg 540

agtggagacc accaaaccct ccaaacagag caacaacaag tacgcggcca gcagctacct 600

gagcctgacg cccgagcagt ggaagtccca cagaagctac agctgccagg tcacgcatga 660

agggagcacc gtggatgaag acagtggtcc cctacagaaa tgttctatag gttctctaac 720

acgctcagcc cccactacca atggcgagac tagcacgctg cagggatccc aagggagagg 780

ggtctctcca tccacaccac acaagggcga gtcaaagccc ttatcatcgc gcatgtcgac 840

gtcatgtaaa agcgcctaca aataagatat tctgcacttg gttgaaatgt cctacataca 900

taacaaagac acatactcaa ctacacggag tcgatcgatc accggtccgt gcgggcgaat 960

gccacttcgc tctcgtgcgt ccaatgatga ctcatagtta cacaccggtg tgcggcgcac 1020

anctatgagt ggatattcgc ccgggatcac agaccatgga tttccccccg tggctgatcg 1080

aatatgcggt acgcggcatc aaattcgccc gggagctaca gacctaaaaa agttgaccgc 1140

gcagcggccg aagaacaggc tttcgacgga atgccaaaca cagagggccg cagaccggca 1200

ggcgaccccg ggcggaggag ccccactgcg gcagggcgag gcgaaggaca gatacgagga 1260

cgcgagccac acgcgcgccc gtgcatgaga cggagacggc cgagggagcg cagacccgaa 1320

gcagcgcgcc aagagcgacc gcgcaagcca cacgcgccta ggccctgcgc cacggccggc 1380

cacgcgcgag aggcggggcg gagcaccgca ggagaccgac cacggacccg accggcccag 1440

ggcagcagag ccaccgagct 1460

<210> 9
<211> 738
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (287)..(287)
<223> a, c, g or t

<400> 9
agattttgaa agctcatata gaggcggcat tgggtcctcg tagtattgca tgctccgagc 60

ggacgccaag ctgtagatag gtggtggtcg cggacgaggt acttgcgtat cttgtattat 120

atgttctatc cctcaattca tacagttcaa tattccatgt gggtattgga atatgcgttt 180

catatggata tagaaacatg tctatatact atacctagtt atctcttgtc tcggatgaag 240

cttccatcta tactggctga gacagttgca gcagcagacg tcatagntat ggcgaggcca 300

caatctgacc ctcattacgt tgaacgtgca gcttatataa taaagatact gactcggtcc 360

gtgtcgcgac aaaagactca cgccgtggta aatcccagca cttgggaggc cgaggcgggt 420

tggatcacaa tggtccggag tcaaagacca gcctggccaa tatggtgaaa ccccgtctct 480

cctaaaaata caaaaattag ctgggcatag tggtgtatgc ctgtagtccc agctacttgg 540

gaggctgagg cagaagaatc gcttgaacct aggaggcaga ggttgcagtg agccgagatc 600

gtgctactgc actccagcct gggcaaaaga gcaagactcc atctcaaaaa aaaaaaaaaa 660

aaaaaaaaaa aaggcggggg gaaacccggg gccaaagcgg tcccgggggg accctggttc 720

cccgcccaaa tccccatg 738

<210> 10
<211> 909
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (623)..(623)
<223> a, c, g or t

<400> 10
ctatagtgag aaggcacttg gaaaggcaaa gtggtcttct tcttcttcct ccttctcctc 60

ctccttctcc tccttctcct ccttctcctc ctccttctcc tccttcttct cctcctcctt 120

cttctcctcc tccttctcct cctcctcctc ttcttcctct tcatcctgtt cctcttcttc 180

ttcttcttct tcttcttctt cttcttcttc ttcttcttcc tcttcttctt ccttcttctt 240

```
tctttttcc tttcttttt ttttgagatg gagtcttgct ctgttgccca ggctggagtg     300

cagtagcacg atctcggctc actgcaacct ctgcctccta ggttcaagcg attcttctgc     360

ctcagcctcc caagtagctg ggactacagg catacaccac tatgcccagc taatttttgt     420

atttttagga gagacggggt ttcaccatat tggccaggct ggtctttgac tccggaccat     480

tgtgatccaa cccgcctcgg cctcccaagt gctgggattt accacggcgt gagtcttttg     540

tcgcgacacg gaccgagtca gtatctttat tatataagct gcacgttcaa cgtaatgagg     600

gtcagattgt ggcctcgcca tanctatgac gtctgctgct gcaactgtct cagccagtat     660

agatggaagc ttcatccgag acaagagata actaggtata gtatatagac atgtttctat     720

atccatatga aacgcatatt ccaataccca catggaatat tgaactgtat gaattgaggg     780

atagaacata taatacaaga tacgcaagta cctcgtccgc gaccaccacc tatctacagc     840

ttggcgtccg ctcggagcat gcaatactac gaggacccaa tgccgcctct atatgagctt     900

tcaaaatct                                                            909


<210>  11
<211>  375
<212>  DNA
<213>  Homo sapien

<400>  11
atctgctgct gctctgtgtc tgttctgtgc ttgcagtgct gagctggtat cacgctcaca      60

tcacatggct ggtaatacgt gtatatccac atgaatcacg gggataacag cagggaaaga     120

acatgtgaat gccaaaaggc catgcaaaaa tgccatgtgt aacctgtaaa aaaggtgccg     180

cgatggatgg agagatatat acccattagg aatcctacga gagacaataa taatagcaga     240

gagagacgga gagagaacac agacgaaaga gagagtagag acaggagaag ggaaagaaat     300

gagagaaaaa gaagagagaa cgagacaaga gaacaaagag agggcgaaac agaggcaaaa     360

aaagacaaaa aaaaa                                                     375


<210>  12
<211>  718
<212>  DNA
<213>  Homo sapien

<400>  12
cggcccgggc cggtactcca tcgtcgacat ctgcctcaga tgagggatca ggcagcactc      60

taggaccaaa gaccaatctt gatccaaccc actctatact aagaattacc tcagaaccgc     120

gtgtgaatta tagactcatc cgagtagaag cgtacatttt aataggcgtg atcttggaca     180

atagactaca tccattttga ggagacatca ctatggccat gtactaaaga gactatgcat     240
```

gactgatgac ggaagatgtc cacggagact gtaatatacg gcctttgact atcgactaca 300

tagtaagtaa tcctgttgtc aatttgctga tgaccatgtt ggtccgagtc gcagatgcgt 360

caccgcctgt cataccagca cctaacaggt cgaggcaggc ggatcacttg aggtcaggag 420

ttcaagacca gcctggccaa tatggtgaaa cccagtctct actaaaaata caaaaattag 480

ctaggcatga tggcgcatgc ctataatccc agctactcga gtgcctgagg caggagaatt 540

gcatgaaccc gggaggagga ggaggaggtt gcagtgagcc gagatagcgg cactgcaact 600

ccagctgggt gacaaagtga gactccatct cgaaaagaca aaaccgaaag cacacacgct 660

gggggaacac actggccata atgtgtcccc gggaaaaggt atccggccaa aatcccag 718

<210> 13
<211> 686
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (285)..(285)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (296)..(296)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (312)..(312)
<223> a, c, g or t

<400> 13
agaatatacc aataggcgac ctggttcctc tagtatgcat agctcgagtc ggtcgccagt 60

gtagatagga gtaggtcgcg gacgagagta cttgcgtatc ttgtgttatc tgttctatcc 120

ctcaatatca ttacgtcaat ttccatgtgg gtatggatat gcgtatcata gcatatagaa 180

agatgtctca tatacgtata gcctaagtta tccttcgttt ctcgactgaa gctattccat 240

ttctatctac tggctgagaa cagttgagct agagaccgtc atagntagtg gcgagngcca 300

acaatctgac cnttcattac ttgacgtgca gctatataat aaatgatagc tagacctcgg 360

tccgttgcgg acgaagagag ctcagagcgt gtaaataccc agcacgtttg gcgcaggccg 420

aaggccggcg tggatcacaa tggtcacgga gcttaaagac cagcctggcc aatatggtga 480

aaccccgtct ctcctaaaaa tacaaaaatt agctgggcat agtggtgtat gcctgtagtc 540

ccagctactt gggaggctga ggcagaagaa tcgcttgaac ctaggaggca gaggttgcag 600

tgagccgaga tcgtgctact gcactccagc ctgggcaaaa gagcaagact ccatctcaaa 660

aaaaaaaaaa aaaaaaaaaa aaaaaa 686

<210> 14
<211> 720
<212> DNA
<213> Homo sapien

<400> 14
tagatcatat ggggcacatg ggtcatctag atgcatgctc gagcggcgca gtgtgatgga 60

tcccatctct actaaaaata taaaaatcag ccgggcatgg tggcatgtgc ctgtaatccc 120

agctactcag gagtctgagg aggagaatca cttgaacctg gaggcagagg ttgcagtgag 180

tcgaggttgc gctactagca ctccagcctg gacaacagag ggagactcta gtctcaaaaa 240

aacaaacaaa acctaacagc tggttcaagg caccagctgg acgggtcaag tggtgggcct 300

tttctgggtc tttggaacac tatctataga aaggttgaca aatggcttgc aaagcacagt 360

gaagaacagt gaacttataa acggggatag aattaacgtg cccagctata tagcacactt 420

tattcttatg tgcacaccaa caacaaggct atgaaaattg gtatgacgat tattaatatt 480

aatggccaaa atagtgggaa cgatattggg agactcaaga aacaggggat taatccaagt 540

ggggacccat acagtgaaca agagacaaaa ggcgcaaaga ataaaaccca aaaactcggc 600

gagggacgct acagcggaga aaaaagagca agaaaaaata aagaagaaga acaacagaag 660

caggcgggcg agccaagcac ggggaacgcg gcgggaggca cacgcggggc acaagagggg 720

<210> 15
<211> 1791
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (459)..(459)
<223> a, c, g or t

<400> 15
gcggcctgcc ctgggcaggt tacacctgcg cctgcgtgaa ggggggctcc gagtggtggc 60

gctgccgtca aatgcctgcc cgtttccttt acttattact ttatgctttt tgttcttggg 120

gaaggatgtg acagactcgc ggaggtgtcc ttgcatttcc tcgccctgat tcttgtgctt 180

tctacctccg ggtacactag agagcgtatg gcttgtagtt gtttgtgtgt tttggctttg 240

ttgtttggtt cttctataat gaaaacgtgg gacaagaaga tagaaaaaaa taacttcaca 300

tcactcaata tatctcatct gaattactac gaccttcgcc accacttcta cagggttaca 360

tgttgcggat ctcagtgtgc actcccctcg taacgcgtga atattgcgtt cccttggatt 420

gatggtgatg ctgtgtttgg tgagtctaca tcgaaacgnt cacaacaatt ctctcagtgt 480

gtgtcggaga taaagtctct gtgtggattg tccgacaccc tgtgtttatc ctcggtatgt 540

tgtctcaggg gataaaaaga ctccctctgt ttttcaccag ccccggtata taaaacattg 600

gacaaaaaac aaacgaaatg acttatacaa ggcggcttga gttggccgtt gtcccatacc 660

acaacaagat gttgtgtacg cataaaaaaa ctagttgtgt ctactcaccc ttcttgtgct 720

atagtatcac catataacgt tcagttagaa tatactcggc caaacacaac ttagaggaat 780

ataacctcgt cggcactatc aaaagcaaaa tttagcgggg gcaccaacaa cagggctttc 840

tcccacgccc cttatatgca aaacatttga ttcctttcct tttaaataac ggatgtggat 900

ttgtgtagca cttctatcta ggcatattga agttagcgaa gtgcgcgtaa gtgggtgcgt 960

gaaacaaaac aatatatata tagcaacgtg aggtccaccc ttaactatag acaacactat 1020

ttctaatatt cacaccagca ggtaacatta aacaccgatt tcatttatcc cgtaggaaag 1080

tactaccaac attacaaacc cccaacgacg acccttgagt gaccaacggt ctaaatagga 1140

atgtgaggcc cccaaaagga tcaggttgcc catggtaaga gaaaaacaac aaccgaaggc 1200

accttcccac attcgtggtg catgtgaaaa tcttatggtg acttaacacg gctaaacatg 1260

tggaccacag ccacaaagac ggaaaatatc aaatattgtg ttctacaata tagccccttc 1320

cacatgtggg tgtgaaacac atcaagccat taaaaccccc ctgtgaaaga acacttcata 1380

tacagcttaa gttgtgagtg tgcaagaaaa ccaacttata acttctgaca atatgatgtc 1440

gcacaaaaaa acattcttat aaggaccaaa agtgataata cacttcaccc aaaattataa 1500

aacgcttacc cggacaaatc ttaccccact tctatcaaaa ctattaaatg cggcaatgtg 1560

acaaacaccc ataataaacc caccacacaa aacacatatc tgacattagc ttcacctagt 1620

aacttaccac tgatcgaaag gcatatgata ctcgcatctc aaatatatct actttataaa 1680

caagatacga atatataata acatacaaca caacaaaaca aaaaaccaac aactagttga 1740

atcaacttac caaacactca tcatcggtaa aaattatcac tcaccaaacc a 1791

<210> 16
<211> 613
<212> DNA
<213> Homo sapien

<400> 16

gcggcgccgg gcaggtgcca gtgcagcgcg ctccgtgctc gaggggggcag ggggagctgg 60

aggaaaccgc agatgagttt acctctcttc gaaagataga gataaataca agctacttaa 120

aaaatatcgt caaaaggttc gctcagcatc atagctccag cgataccagt tgtgttagcc 180

gctcagatgt acacatagcg ttcaagcatg tttcacacga tgcaaaatca tgcaatgcac 240

tgtgcaggaa gccagtagcc atgcagggac ggcacagagc atcaccagag gttgcctgag 300

agagaccatg cacgggcagg ctcgcagatc gcgcaggcta ggcggtaagt catggctaca 360

tagctgactc tccgagagct ggaaagtaag taaatccgag tgcaacaaat gccgagcgac 420

aagagtaccg agcacaaata gcatgaaccg aaaagagaat accacgtacc aacccatatg 480

acaacatcac acctacataa aataatgaca ggggctgaaa caaagcgtca ggatcccaga 540

acaccataat aagcaaggag aacccagacc ccaaacaaca cacaccaaaa caaacaaaac 600

accaaaaaaa aaa 613

<210> 17
<211> 167
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (92)..(92)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (99)..(99)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (160)..(160)
<223> a, c, g or t

<400> 17
actcctccaa gaggcgacaa gttcaaagct gagtaaaggg gggaaatgaa ggaaacttct 60

tgcacaagga gcttgcccaa gctttttgtg gnggggggang aaaagtggat tgaagggagg 120

ggggcttgta aggaaagcct tgatggggcc agcccttggn attgaag 167

<210> 18
<211> 484
<212> DNA
<213> Homo sapien

<400> 18
gacaatgaaa tcatatgggc gctgggttat aatgcatgct cgagcggccg cagtgtgatg 60

gatagcggcg ccgggcaggt acactgcatt tgaatgtggc tcattgcatg gtggctcatg 120

cctatgatcc cagcactttg ggaggccaag gccagcagat catttgagcc caggagttcg 180

agaccagcct gggcaacatg gtgaaacctt gtttctatta aaaatacaaa aataaaataa 240

taattagcca actatggtgg tgcacacctg tagtcccagc tactgggggc gctaaggtgg 300

gaggatcgct tgagcctggg aggtcaaggc tgcagtgagc tatgatcaca ccactgcact 360

cctgcttagt gacagagaga gaccctgtct caaaaaaaaa aaaaaaaaaa gacttcacat 420

tcattctttc gaatttttcc ataaccccct ttagctggta taatggacag ctcttgggac 480

aaca 484

<210> 19
<211> 906
<212> DNA
<213> Homo sapien

<400> 19
tatcactatg ggcgactggg ttatctagat gcatgctcga gcggcgccag ttgtgatgga 60

ttggtcgggg ccgatgctct cgtggagccc ccttagaacc atgcgacgga taccgatgct 120

tctgtggtag actctctact gtgcgccagg ttcccatgcc gcctcctaat gccgctcgta 180

gaccttcctg actagagctg gcccattcta cttctgccat gatcaaccgc ctcccataga 240

gagaatttct atgccacact cgccatagat ttcgaacgac gtatttgtgg tgtacatcct 300

gtctgtatta atataaggac ggcgaggaca tgtcgatgga ctctgagccc acaaccgaag 360

ccatcagcaa tccccccttgt gaccttgcac gggttatcat gcccgaagca tggagacctt 420

gagagtgaga cgtcgcatag ggagagttcg accatatata cgcacacgct agaactagtt 480

gctctagcac cacagctttg agacgttgga tgcaactcgt gttccatccg actagaaatc 540

acatgtgttg atggccggtc cctggctata agtgcatgac attatctttg tcgaaagtcc 600

ttttcctggc tcatcctggc tcaaaaatca cccccactga gcaccttgca acccccccact 660

cctgcctgcc agagaacaaa ccctcttttg actgtaattt tcctttacct acccaaattc 720

cttataaaac ggcccaccct tatctccctt cgctgactct cttttcggac tcagcccgct 780

gcacccaggt gaaataaaca ggcacgtttg ctcacaaaaa aaagaaaaaa aaaaaaaaag 840

tgggggtaac cagggacaaa aggtcccggg ggaattgtga tccggccaaa ttcccaaatg 900

gacaac 906

<210> 20
<211> 744
<212> DNA
<213> Homo sapien

<400> 20
aggacaattg aagtcctata gggcgcatgg gtcctctaac tgctgctcga cgcggcgaca 60

gtgtgatgga tggctggtgt gatcatggct catgcaacct tgaattcctg ggcacaagtg 120

atcctcctgc cttagcctcc cagagtagag ttgggactac aggtatgcgc caacacacct 180

ggctaatttt attaactttt acttttagta gatgatggtg gggtgcaggt ctcactatgt 240

tgcccaggct gttctcgaac tcctggacca caagccatcc tcccacactt agtctcccaa 300

tgcgccggac ttacaggtgg ctcagtgtgt gagcacaacg tgcctggact ttactccact 360

atcttgaaat cagctgggac ggaggctttc tatctgggtg gcgactgagg agtgccaccc 420

tgaagtcacc ccaggtcatc gtgtggactg ggacatagcc taattacacc caccctgtgg 480

tagtctgtgg acagaagctt tggctgataa tcagtgggtc actacgctga taaccctgct 540

ggtgacacat tgtgattcgg ctacacacat gtccacacac aatagagaag caagagagaa 600

gacaagagag gaagagagag aagaaaaaag agaagcaaga agaaaaagaa aaaggacaga 660

cacgaggagc agcaagaaag aaggagagag cgagcagaga aaggagagag ggacagaaga 720

caggcaggga aagaagggaa gaag 744

<210> 21
<211> 851
<212> DNA
<213> Homo sapien

<400> 21
ctctctctct ctctctctct ctctctctct ctctctctct ctccctccct ttgctttccc 60

tctcctcctt tacagatgcg aaagctatag ggactatagg gcctctcgga gatagaagtg 120

ggaggagagg ataaaaaaga agagtccaga accgcgcagc agcggcagca ggacagcagc 180

aagcaaagtc gacgtgatgc gcgggcagcg agcgcgcacc cctgatgctg cagaagcaga 240

acaccagaag cggcgggggt gagcatcaac gagagcagcc catggacaaa acagccagcc 300

ttggaggaag ctgcacgacc ccgagagcac ctcctacatt caccgtgcga ggagagctga 360

cagcacagaa agtacatcac aaaagccaat cttcatctca tcgaccccgc agagcaatac 420

caggtggggg aacgaaacgc aagaagagag acgcacaagc agcagacata tcacacgccc 480

gaactgaaca tcatcaagat actcgccagg acgatgctga agcaccacac aaaacaccaa 540

atacaaagca cccgagaaca ccctgtcggc acacagcacc ccccctgcat ccgccggaac 600

agatgaacag agggcagagc aacacacgca gaaatgagaa caacctccac agcgaacaca 660

acgcagccta acacaatgat gacgatggac ctgatcaaga agcccacccc acaacgatgc 720

acaaaccagc caacagacct gacatgaacc cgcccaactg cgatcacgac gcaccaccac 780

acacagaaac gccgcaccac acaccctcgg aacacccctc cgacccccac acactcctcc 840

gaccgccgcc c 851

<210> 22
<211> 1129
<212> DNA
<213> Homo sapien

<400> 22
atggcagccg caagagaaaa tgaggaagat gcaaaagcag aatcccctga taaaaccacc 60

agatctcatg agacttattc actaccacga gaacagtatg ggggaaaccg cccccatgat 120

tcaaattatc tcccaccggg cgttggaccc gaagtccacg cgccggaact cgaaccagga 180

gctagaggac cccagcgcag aatccgcgga ggcgcagggc ttcatccacc gcgctctcag 240

atcgcgtccc agcccagatc tagccacgaa gacaccggct acctctgcct gggcttcgtg 300

ttccatgagc tccaggaagg cgacggtcag tgcctggctg gggacccgga ccgatgcgaa 360

ggctataggg actatagggc ctctcggaga tagaagtggg aggagaggat aaaaaagaag 420

agtccagaac cgcgcagcag cggcagcagg acagcagcaa gcaaagtcga cgtgatgcgc 480

gggcagcgag cgcgcacccc tgatgctgca gaagcagaac accagaagcg gcgggggtga 540

gcatcaacga gagcagccca tggacaaaac agccagcctt ggaggaagct gcacgacccc 600

gagagcacct cctacattca ccgtgcgagg agagctgaca gcacagaaag tacatcacaa 660

aagccaatct tcatctcatc gaccccgcag agcaatacca ggtgggggaa cgaaacgcaa 720

gaagagagac gcacaagcag cagacatatc acacgcccga actgaacatc atcaagatac 780

tcgccaggac gatgctgaag caccacacaa aacaccaaat acaaagcacc cgagaacacc 840

ctgtcggcac acagcacccc ccctgcatcc gccggaacag atgaacagag ggcagagcaa 900

cacacgcaga aatgagaaca acctccacag cgaacacaac gcagcctaac acaatgatga 960

cgatggacct gatcaagaag cccaccccac aacgatgcac aaaccagcca acagacctga 1020

catgaacccg cccaactgcg atcacgacgc accaccacac acagaaacgc cgcaccacac 1080

accctcggaa cacccctccg acccccacac actcctccga ccgccgccc 1129

<210> 23
<211> 900
<212> DNA

<213> Homo sapien

<400> 23

```
aagacgacaa aggaaagttg aatttataag ggcccattgg tttatcatag atgcatgctc     60
gagctggcgg cagtgtgatg gatccccggg caggtactgc acatagacag aaagaatggc    120
cgagctgaga ctccagtgta agacctgcac cattcttaaa tgatgcccag tgttgtagtg    180
aatgacaacc acagtgtgct gccaaatacc tgccaggatc ctacagaagg tgtgagcctg    240
atggatttgt catagtggaa tgaagctgcg gaagtccttg agtgcccata ccatatgcca    300
cattgatgca aactgcttgg ctgtaatcac tgtgtcatag ctgtattacc tgtgtgcaca    360
ttctgtatcc tggatcacaa ttcacatcac cacacaatac ttcgatgcca cctcttccac    420
catacacact cctcactaat ccaaccaacc acacaactct aaaaaccaca cacaactaca    480
tctcttacta cccacaccac ctcctcccta acatactaca ccacgactaa tcaacctcta    540
gtatcaaacc acttaaatca ctaacgacta catatcatct ctccttcgac aaccatccca    600
tatccactca caccagcact aataaataac aaacaaactc aacaagccac tagcacaaca    660
ccactcctca cactccaaac aaccaccaca gaaaatcaac caatacactt accacaccaa    720
cataaatacc caaaattacc actatcaacc tcaaaactta ctatcacata caaaatcaaa    780
tccacactac accaccatca accacagaac tactaagtcc acaactccta tgtacccacg    840
aagacactct tacactacac aacccatccc aacacatact acttaacact atccctaaca    900
```

<210> 24
<211> 976
<212> DNA
<213> Homo sapien

<400> 24

```
agatgctgct cgaccgcgcc gataatgtga tggattttag taaacagcaa aatattttga     60
aagctggatg cagatgctca gatgctagag ggtgaaatgg acagacttgg ctaggaagag    120
atatgtgaat gttagcagag ggacctttct ggggattaag gaatcaggaa cacaaatttc    180
tcttctttcc ttcccaccag gctccatgcc ccccttactg gaggaccaag accttgttgc    240
cttcaattta cgggatccca gtgggatcct gatattttcc atagtttctt aacaacattt    300
caagttaaat attaaaatta ttcatagggt gtggagtgag ccaagtgcaa cacattgctg    360
tcaggggtgt tggctactcc gccagctgtt gaaaaaagga gaaagaaaga gagcaaactg    420
agatccacac accccacaca gtatgaccaa ggcgccttct gacttcagga aagccaggca    480
gacggggatc cctggatgct cacagcttgg cagccgatat tcactggagc cagaacagtc    540
tgctctgagg cttgtctgca tccagaagtt gcaggaaagt tccacaacgt gtgaagactt    600
```

cttttgtcct ctctgtggga gagctgggga acataggatt ccttatagac ttatcctccc 660

cacctctcca atgagcaaag gctgctaaaa acttctgaag cctgaatccc aaaagctgga 720

ggctttctct ctcctcccag tgatcggagc ttctcagggt ggcggattgt ctcatggttc 780

tgggggccca aggcaggttc ccggcaggag tgagggtccc ggctcttggg agaggccttt 840

cagctcttgg ctccggggtt ccacctcagc ggggctccct gcgctgcgtg ccggggtgcc 900

ggctccagac tggtcctctt cccccgcgct ttagctgggg actggccacg tccggttatt 960

tcccacccca aagaga 976

<210> 25
<211> 1660
<212> DNA
<213> Homo sapien

<400> 25
gccgtaccca cacctgcggt tgtgggctac tccaaacctg accggttaca tacttctcaa 60

taggcaggta ggtctcagtg aataattgaa aaatggtcct cactatgcac aggctataaa 120

gggactagta tttcagttta atcatgagaa aggctctctg ctttaagaag cactctacat 180

gcgtttccca agccaaactg ctggggctca actgtgggtt ctgctccttc ctggctgccc 240

aaactcaggc aagtgacttt atttcctcca tttcctcatc tataaaatgg gagtagttgg 300

gtggcattaa accgtctatg gaaagtcctc agcatggcgc ctggcacaaa gcaacggctc 360

cctcgcctct gttctcactc ctgttccaca gaattacacc cactcttctc tgctgatact 420

cttaatctca gatccccaat tctgtctttc aaatgtgttg tgtcaacatt tatttgcaaa 480

catgtctatt tgatttcaaa tgaaaacgct tttgagtgga tttaaaaaca aaacacatgc 540

gggggagaaa agagaggctg acagacatgt tagtaaacag cgaaatattt ttgaaagctg 600

gatgcagata gctcagatgc tagagggttg aaatggacag actttggcta ggaagagata 660

tgtgaatgtt agcagaggga cctttcttgg ggattaagga atcaggaaca caaatttctc 720

ttctttcctt cccaccaggg ctccatgccc cccttactgg aggaccaaga ccttgttgcc 780

ttcaatttac gggatcccag tgggatcctg atattttcca tagtttctta acaacatttc 840

aagttaaata ttaaaattat tcatagggtg tggagtgagc caagtgcaac acattgctgt 900

caggggtgtt ggctactccg ccagctgttg aaaaaaggag aaagaaagag agcaaactga 960

gatccacaca ccccacacag tatgaccaag gcgccttctg acttcaggaa agccaggcag 1020

acggggatcc ctggatgctc acagcttggc agccgatatt cactggagcc agaacagtct 1080

gctctgaggc ttgtctgcat ccagaagttg caggaaagtt ccacaacgtg tgaagacttc 1140

ttttgtcctc tctgtgggag agctggggaa ataggattcc ttatagactt atcctcccca 1200

cctctccaat gagcaaaggc tgctaaaaac ttctgaagcc tgaatcccaa agctggaggc 1260

tttctctctc ctcccagtga tcggagcttc tcagggtggg gattgtctca tggttctggg 1320

gccaaaggca gttccaggaa ggaggtgagg gtccgactct ggagagaggc atttcagctc 1380

tttggctcag gggttccatc cttcagcggg gcatccttgc agtctgctgc ctgggtgccg 1440

gtctccagac ctggctctct tccctcgcgc tcttcttcaa gcttctggga ctcagctgcc 1500

accgtggtgc tcttgctgga gtggcacccc atctcagagg gacacagagg atccagtgcc 1560

cttggatgtt ccaggaggag gaaggtctgt gccttcctcc ttgggggcca gcgttaaata 1620

accatcctct tgcagcactg ttgaaaagag ccagttccgt 1660

<210> 26
<211> 720
<212> DNA
<213> Homo sapien

<400> 26
gcgtggtcgc ggccgaggtt aatgtcactt caggaagcta ttggtgaagg tttaaacaag 60

gtgagagata ttattggaag ctggaagaaa ggtgactctt gtgacatagt agcagaaatt 120

ttagcaatgc tggaaattta ttttccatga aacagtggaa aataagtata gctcaactgg 180

atgatctcac taaagagatt tctaggcaat gtcaaaggtg ctatctggat tcttctagcc 240

cctatagcaa aagacaaaag gagaaaggca agcaagataa aaaattgttc gatataaagg 300

agccacaact ttttgggttt gaaaaatact ttttttcatt cctaacctct ccagacagtg 360

aatgatgcca aaattaagca atctgttcca gacagagcca atccagggaa ctctcagcaa 420

aatgatgaag atgaaaaggc atggctataa aaggctttgt taagaacagg aaggttaaat 480

acactgtgtt accaacaaac aatagggccc ctaaaaatct taatgtctca cggcagtttc 540

acatgggaaa ccaagataga ggtgggccat ctgaaagaga tttgtgggtg tgatttgtgt 600

ctgatggagt gaattataac tgtttaagag aaaccattaa tttaaaggat tagatcaggt 660

tgattggaaa ggatattgag ttaaatggtg cggcattgtg aatcttaatg cctaaaaata 720

<210> 27
<211> 708
<212> DNA
<213> Homo sapien

<400> 27
cgtggtcgcg gcgaggtcaa cttggaactc tggaaatgtg gcttcgctca ctggcgcctt 60

gagcttgggc gactgccggg tccgcgaaac ccgacccctg cagagctgac tccgggacta 120

ttttagtttc taacgtcaac ttgccccgat tcaagagggt ttgcgcaaaa aacgtagccc 180

gttgtcctcc tgctgcagct gttgttgcag ctgtgtggct gcgtttagta ggaataacca 240

actcaaattg ggaagttctt cagctcagta tccgctcctg taattagaac ttcttttctt 300

taagcgatga aattttggac agagagatct ggagtttagt ttgtgacgtc gaagaacaaa 360

ctccaaaatg taataccttg tccccatttg gggggcaaag ttgtgggcta attcaattcg 420

ccatggaagt gtcttctttt taaagtagtt tagtaggtat atgaatgtat ctgtcagttc 480

ttgagagacc tatggattta gcagagattt taacttagtg ccaaaaagtt tcatatttaa 540

aggcgaataa agcgaatatt tcttaaaaaa aaaaaaaaaa aagggaaaaa aacaaaaaaa 600

aaaaaaaaag ggtgggggggc cccggggcca aagggttccc gggggaattg ttctcccccc 660

ccatcacacc cacaacacaa aaaaatgaaa aaggcacaac cggaccat 708

<210> 28
<211> 1099
<212> DNA
<213> Homo sapien

<400> 28
tttcattata tattgctcta tattctaggt cgcccacttt acacttcctt ctcatgcact 60

tggtcaatac cacgcccgct gaccacactg gcgacttccc tctctgtcgc ccctccgtga 120

agtcagaccc actctgcggg ccaagaaagg tgaccgggct tccttccggc ttgctaagca 180

gaggccggaa gcggtggttt ttagcggatt ctcgtagctg tgccgggtga gtggcgctcg 240

cgttcgggcg cgtgagaccc atcccgggga cccgtctccg cgggggcagc tggagggcgg 300

cggggctcct ggcgccggta gcgcacctgg gcaggtgtgc cagccaggtc cccggttctg 360

ggatccgagg ccatggcttg gagtggccca gacccgaact tcgctcctgt gcccaaactt 420

ggaactctgg aaatgtggct tcgctcactg gcgccttgag cttgggcgac tgccgggtcc 480

gcgaaacccg acccctgcag agctgactcc gggactattt tagtttctaa cgtcaacttg 540

cccgattcaa gagggtttgc gcaaaaaacg tagcccgttg tcctcctgct gcagctgttg 600

ttgcagctgt gtggctgcgt ttagtaggaa taaccaactc aaattgggaa gttcttcagc 660

tcagtatccg ctcctgtaat tagaactttt tttctttaag cgatgaaatt ttggacagag 720

agatctggag tttagtttgt gactcgaaga aaaactccaa aatgtaatac cttgtcccat 780

ttgggggggaa agtttgggct aattcaattc gccatggaag tgtcttcttt ttaaagtagt 840

ttagtaggta tatgaatgta tctgtcagtt cttgagagac ctatggattt agcagagatt 900

ttaacttaag tgcaaaaagt ttcatattta aaggcgaata aagcgaatat ttcttaaaaa 960

aaaaaaaaaa aaagggaaaa aaacaaaaaa aaaaaaaaaa gggtgggggg ccccggggcc 1020

aaagggttcc cgggggaatt gttctccccc cccatcacac ccacaacaca aaaaaatgaa 1080

aaaggcacaa ccggaccat 1099

<210> 29
<211> 598
<212> DNA
<213> Homo sapien

<400> 29
caccccacag gagtaactca tcaggactta ccagactgct gcttttgggc atcatctgct 60

gggttgatga tttggtttgg ccaagagtct tgccaagact ttaatctatg cctcttgttc 120

tacatgaatt cttgggaatt actcacgttc cataggaaga gtgcatcccc aggtgatggt 180

ttttggttat ggtatgatcc tttcacaccg agggatttca ttgtttaaaa cgtgtttctt 240

taaaagaagc cttgataacg agagtggggg aaggaggcag cagactttga agactgtggc 300

ctttggtgtt ctggagtagg gggagggaag gagaaacatg ttttccacat catcgcaagt 360

gtgtgccctt tgccccTttt caggatcctt agagttgcct ccctccctcc accccgacag 420

ttttgcaata atgtgcctta tcagttgtga gtttacaggt gaagcaattt cccaaataaa 480

tggatgtaag tgttcaaaaa aaaaaaaaac aaaaaaaaag gctgggggaa accggggcca 540

aagcctctcc ccgggggggac attgtttccc gccccaattc aacccacaca aaccaccg 598

<210> 30
<211> 1495
<212> DNA
<213> Homo sapien

<400> 30
gcacgaggaa aatgctgttt gtattttgtg gtctaataag gagttcggga tagcctgttg 60

tatttgcctc atgccagccc ctgagctgcc ttgggagaag atgctgattg tccttgtcca 120

gagtactgct tttgcagagt gacaggctgc tgggacagat gtcctcctgt tgcatctttg 180

tggatgttta gtaccaatga tgacacggga actcacatca ctgacaccgc tcttcatctt 240

ctgttagtct cttgaagagc attttttttgt acttctttgc tgatgaccta cctcttcata 300

agccaagtga aacaagttga cgaactgcct aggacttcca cgtgttgctc acatacatga 360

tgatttctgt cacgctcttg tgttcagaca cactgacatt accatgtatg tcagacctcc 420

ttatgatcgc atgtcctgac agttaagctg attgcaaaca gactattaaa tatgaatgga 480

gcaaacgctg tatgtcatgg atatgttctg gagaaattct tacccatctg gatggggcag 540

ggcccttgac tcacctgaat catgaccagg caaacatttt atctgtcctt tctgcaggaa 600

tccgttctgt gtcatgctag gagaatgggt tcagtatatg gggccatcag gcagtatacc 660

ctctgaatgt ttttcattgt tgtatttgct tagagtaact aaacaattgt atcttttaat 720

ttatctttta attcaaagag gaaaccttgg cttctgataa ctttgttgtg ttgtatctta 780

atggcctata gctgtcatta cttcctgtag ctgcagtaca gaattgttac agacctggat 840

taatgcttcc aaagacagaa ggaccttggc acctaaactg accagccctg tgatcctgca 900

ccccacagga gtaactcatc aggacttacc agactgctgc ttttgggcat catctgctgg 960

gttgatgatt tggtttggcc aagagtcttg ccaagacttt aatctatgcc tcttgttcta 1020

catgaattct tgggaattac tcacgttcca taggaagagt gcatccccag gtgatggttt 1080

ttggttatgg tatgatcctt tcacaccgag gatttcattg tttaaaacgt gtttctttaa 1140

aagaagcctt gataacgaga gtgggggaag gaggcagcag actttgaaga ctgtggcctt 1200

tggtgttctg gagtaggggg agggaaggag aaacatgttt tccacatcat cgcaagtgtg 1260

tgccctttgc ccctttttcag gatccttaga gttgcctccc tccctccacc ccgacagttt 1320

tgcaataatg tgccttatca gttgtgagtt tacaggtgaa gcaatttccc aaataaatgg 1380

atgtaagtgt aaaaaaaaaa aaaaaaaaaa aaaaaattct gggggaaacc ggggccaaag 1440

cctctccccg gggggacatt gtttcccgcc ccaattcaac ccacacaaac caccg 1495

<210> 31
<211> 546
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (501)..(501)
<223> a, c, g or t

<400> 31
gtttcctcag acagtcttcc ttgagcaact tcctaaacgc ccttcattat ccccttttcaa 60

gctcatgcct agagagcaag gagcaaagcc attagaaagg cttcatccca ccagcaggag 120

aagctaggac atcccaaagg gtccacttca tagagaggtg ccaacccccca cacgcacacc 180

aggcacacaa atgcatgtgt gcacacgcat accacaccct ccaattgtcc ccagaatggc 240

tcccttcagg gagtcatgtt accgggacac caaatgaggg cacaatatcc ttactcctac 300

agtttcctgc tcacattcgg attagagaaa tgggatgtct ctaaataatg tgtctaaaat 360

tctctataac ataagtgcat atgttacgtg aaaaaaacaa aaaaaaaaaa aaaaaaggtc 420

gggggggaacc cggggccaag gcggtccccg gggggaattt ggttccccgc cccaattccc 480

ccccattcgg gagaaacagg ntggcggccg agaaaacccg ggcaccaaga aagccggaca 540

cacacc 546

<210> 32
<211> 1778
<212> DNA
<213> Homo sapien

<400> 32
ggccgcctca gtttccctgg ccgtaaaacg cgggcgatgg cgctcgatgc cccgggagac 60

gccggggtcc gcgggccctt ccggcaccgg gtcctccttc aggttcgggc acccggctgc 120

ctccacgcgg ggcgagcgcg gcgatgggat cggtccgtgc tgcgctcagc cccgctttcg 180

ctatccctct gctccagggg cagcaaaatc agcagatgag cccccagcgc gcctgcggcc 240

cacacactgc ggccgtaaca gttaaacaga cggggaacat tcatgtgcgt agagctcttc 300

acggggcgat acagaaatgt gtcgttctaa agcgttaacg acctgcaatt tgcatatcct 360

ccaacacatg gattttactg attcaattat ggatgtgtgc aaagaatctg ctgctcgggc 420

gtggtgtcct cagtgctgag agagccccgc gacggcggtg cagctcctcc agggcgcgca 480

gccccgccac ctggcgccac cgcgagggag cgcaggccca gggcccgggc agacgctgga 540

ggggacgcgg caggtgaaga tggggcacct ccacttccct tctaaaggag cctgggaata 600

ggctaggaaa tgtccccact gtagaagaca gcaggaacat ctgacacgcg gataacctgt 660

gctgagctcg ttatattccc agcatttaat tctagccatt aggcatgcgt tagccacaac 720

ttcgcatagg aaggttattg caggtaagtt aagactcctt tccacttctt cctaagggtc 780

gctgacccat ggttctctag cttttgctgg taatcccacc cagattctca gcaccctagg 840

ttggaatgac ccctcctgag gtgggtgggg tagctgggag gcacctccct gaactgactt 900

ttctgccttt ttgaaggtgc agtggctgag cgctccttca gtgttttccg gtagtctttc 960

ttcagcccag tacgcagttt cctcagacag tcttccttga gcaacttcct aaacgccctt 1020

cattatcccc cttcaagctc atgcctagga gcaaggagca aagccattag aaaggcttca 1080

tccaccagca ggagaagcta ggacatccca aagggtccac ttctagagag gtgccaaccc 1140

ccacacgcac accaggcaca caaatgcatg tgtgcacacg cataccacac cctccaattg 1200

tccccagaat ggctcccttc agggagtcat gttccgggac accaaatgag ggaaaatatc 1260

cttctcctac agtttcctgc tcacatttgg attgagaaat gggatgtctc taaataatgt 1320

gtctaaattc tcttaacata agtgcatatg ttacgagaga tctgatccca gcctcccttt 1380

tttgttaaag tggtggtgct ttgccaccca tgtcaaaatg atctgggctt tccacatcaa 1440

atgcaaggga tgagcttgga ggacataccc cagtaccagc aatgatcttg agccaatggc 1500

agcgtcagct cacaacgggg tgattgaggc ttcttggtta gaagctttag aaacttgagg 1560

tcagtaaaac ccaaattgat cctttctcta gatcctctag atttctctag aggaaaaggt 1620

gacaaaaaca gacacttgtg ctcaccgtca ggggcacaat gctgtccgtc aatcctcatg 1680

cagtcctccc caccatttcg cacactgaca ccatcactac tttatgataa aaggagactc 1740

aggcagctta gataacagct gaaactcagc cagctatg 1778

<210> 33
<211> 264
<212> DNA
<213> Homo sapien

<400> 33
acccctgccg atccgcggtc ttgggtgacc tgcgcgtcga tagcgcgtgc tcgaagagga 60

gaggcaacct cagctccagg ggtttgaacc gacgccactt tcagttacga gtaaactgag 120

accagagagc agaggggggct tatttccctc tgccctatac tggccgtcga atgagcaaca 180

gtcacacaga gcaggcgacc tttttgtcaa aagtgtgtgg ggcggggcgc gcagtaggcg 240

ccctaaacgc tggactgaac agag 264

<210> 34
<211> 385
<212> DNA
<213> Homo sapien

<400> 34
tgggacctgc gccctgaatg aaggcttccc tggtaccccc tgccgatccg cggtcttggg 60

gacctgcgcg tccgatagcg cgtgctcgaa gaggagaggc aacctcagct ccaggggggtt 120

tgaaccgacc cactttcagt tacgagtaaa ctgagaccag agagcagagg gggcttattt 180

ccctctgccc catactggcc ggcgaaaggg caagtcacac agagcaggcg acctttttgt 240

caaaagtgtg tggggcgggg cgcgcagtag gcgccctaaa cgctggactg aacagagaag 300

cttaattgat acttaagagt ggaagcttag ctacagttaa ggactccttc ctcctttcat 360

tcatttaata aagatttatt gattc 385

<210> 35
<211> 416
<212> DNA
<213> Homo sapien

<400> 35
cggccgcccg ggcaggtgtc tgtaacatcc atcaaggatt tccatagggg tgactggtgc 60

ccgcccaaga ctgcaccagt gcctgctcat tgaggagagt aactgctggc caggcagaaa 120

gaatatgggc tctgcaatga gacagacctg gaggggactc tcccgttgag cactagcagc 180

tggaggagtt gggagttcat ggctatcatg gttgtgttaa tcgattgtgg ggatgaaatg 240

tcattgtgta tggaaggcgg ggctcatggc tgattggcaa taaaatggcg gctgccgttg 300

tcattgtctc caaaaaaaaa aaaaaaaaaa aaaaaaggct gggggtatcc ggggccaagg 360

cggttcccgg ggggaatttg tttcccgccc caattccccc acaatttcgc aacagt 416

<210> 36
<211> 1612
<212> DNA
<213> Homo sapien

<400> 36
ctcctcccga ggaaccagtg gtgacagctg aggccatgtg agtaggatcc tgaatgaggc 60

tttatctctg gctgttcgtc ccatcgtcca ccgtggcacc agctccctca gccagccggg 120

atgggaccag cgactgagag agccagaggc agagaggtga gggtgaccat atcctggact 180

gtgagaggaa tgggactctg ggcctgtagc tgccaagcag gtggcaggtg ctccaggctg 240

tgatctgcac cctctgaccc ctgacattga cctcctaccc tgacccctgc ctgaccaagc 300

catgtctgaa caggaggctc aagccccagg gggccggggg ctgcccccgg acatgctggc 360

agagcaggtg gagctgtggt ggtcccagca gccgcggcgc tcggcgctct gcttcgtcgt 420

ggccgtgggc ctcgtggcag gctgtggcgc gggcggcgtg gcactgctgt caaccaccag 480

cagccgctca ggtgaatggc ggctagcaac gggcactgtg ctctgtttgc tggctctgct 540

ggttctggtg aaacagctga tgagctcggc tgtgcaggac atgaactgca tccgccaggc 600

ccaccatgtg gccctgctgc gcagtggtgg aggggccgac gccctcgtgg tgctgctcag 660

tggcctcgtg ctgctggtca ccggcctgac cctggccggg ctggccgccg cccctgcccc 720

tgctcggccg ctggccgcca tgctgtctgt gggcattgct ctggctgcct tgggctcgct 780

tttgctgctg ggcctgctgc tgtatcaagt gggtgtgagc ggacactgcc cctccatctg 840

tatggccact ccctccaccc acagtggcca tggcggccat ggcagcatct tcagcatctc 900

aggacagttg tctgctggcc ggcgtcacga gaccacatcc agcattgcca gcctcatctg 960

acggagccag agccgtcctt cttctcacag cggcctcagc gtccccagag ccgagccagg 1020

gtgtgagtgc atgtgaacgt tgagtacaca tgagtgcgtg tatgccccca ggctgggtca 1080

gctcttctgt ggattgcatg gcgtgtgatt aaaagcccat gtgttcccac acatccacat 1140

catgggaagg ttaatgtgtg cctccttgga actgggtgtt ggtgtccatg gaacttcctc 1200

tctgtatctc aggtcagtag gcgcagaaac gcctcatgat gaagattctt gagccccatt 1260

tccaagaccc ctcacatcca atcctgtcct gtaacatcca tcaaggattt ccataggggt 1320

gactggtgcc cacccaagac tgcaccagtg cctgctcatt gaggagagta actgctggcc 1380

aggcagaaag aatatgggct ctgcaatgag acagacctgg aggggactct cccgttgagc 1440

actagcagct ggaggagttg ggagttcatg gctatcatgg ttgtgttaat cgattgtggg 1500

gatgaaatgt cattgtgtat ggaaggcggg gctcatggct gattggcaat aaaatggcgg 1560

ctgccgttgt cattgtaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg cc 1612

<210> 37
<211> 449
<212> DNA
<213> Homo sapien

<400> 37
ccgcccgggc aggtacagtc cagcctcggc tgggcatcag agggaaacca tgcaaagagg 60

gggaggggga gagggagcca atattttgaa atttattgag acattttaga acctagtata 120

tagcctcttg gtgaatgttc tgtgtgttct taaaaagtga atgtgtattc taccactgtt 180

cagtaaatgc caattgggtt aagtttgttg atagtcaaat ctatatcctt acccatcttt 240

ttgtcccatt ttttctgtca gttattgaac aagaggtgtt aaaatctcca attacttcta 300

tttctctaac actgccattt ttttctttgt ggattttgaa tttctctata tattttgtat 360

attttgaagg tcacatacat cttttgtcgt catgtattct gatgaattga cccttttgtc 420

attattaaat gtgctttatc tctattcat 449

<210> 38
<211> 598
<212> DNA
<213> Homo sapien

<400> 38
aggagctgga gacagcccgg ccaacacggg gaaaccccgt ctccgccaaa agatgcgaaa 60

accagtcagg cgtggcggcg cgcgcctgcg gtcccgggca ctcggcaggc tgaggcagga 120

gaatcaggca gggaggttgc agtgagtcga gatggcggca gtacagtcca gcctcggctg 180

ggcatcagag ggaaaccatg caaagagggg gagggggaga gggagccaat attttgaaat 240

ttattgagac attttagaac ctagtatata gcctcttggt gaatgttctg tgtgttctta 300

aaaagtgaat gtgtattcta ccactgttca gtaaatgcca attgggtcaa gtttgttgat 360

agtcaaatct atatccttac ccatcttttt gtcccatttt ttctgtcagt tattgaacaa 420

gaggtgttaa aatctccaat tacttctatt tctctaacac tgccattttt ttctttgtgg 480

attttgaatt tctctatata ttttgtatat tttgaaggtc acatacatct tttgtcgtca 540

tgtattctga tgaattgacc cttttgtcat tattaaatgt gctttatctc taaaaaaa 598

<210> 39
<211> 1016
<212> DNA
<213> Homo sapien

<400> 39
aacaaaaaga tcaacaagga atgattcact cactataggg ccactgttga ctctagatgc 60

atgctcgagc ggcgcctatg tgatggattg gtcgcggccg aggtacggag gaagctgttt 120

ctaatacttt tgttggttaa aaatacattc cgctgctgtg gaaagcctgt agctgccagg 180

agtgttacag agggcattcc tcccttgagt tgacatttgt gccaaaccgg cttttagggc 240

ttctccagct tttaagatgc gataatgata agatgatcat cgggaaaaca tccctcagat 300

gaaacgttca caggctgggc tctgaaaact ggcattcaga tgattgcggc tcccccatac 360

tgtaggaata ttgtcttatg gcttaaggtt gcctcgctcc tcatctgtaa tcagtgaaag 420

tttatccaga ggttaattac cggttttctg gtgggtatct gggaactgag gatgggcaga 480

ttaactgttg tatatgacca tagtaaagca aaagactgtt tgagaatgag taaacgttcg 540

ttttcctccc tacagaattt accagttact ctctgtccat tccactcact actgtcttca 600

tcacacacac agaggcaaac gtctgattca gatagccagg tgtgccatgc atgcactcca 660

ccatattgtg atctcttcga ggcttgtttc tgtcccctgt cctccacagt cctggatgtt 720

aatgaatagt tcatacatgt ttgttaactt acatatacct tccttttaga atttacagaa 780

aagatcaaaa gatacacaaa acaaacaggg ctgggcggta accagggcaa cgcgggcccg 840

gggggaagtg tttccgcccc aatcccgcat tacgtgagac accgggaatg gagatgatga 900

gcaagtaacg atgaacgaac gacgaggaaa gaagcagaaa caacaagaca acacacacag 960

agaacaaaag taaaggaggc agaggagaga agacagagag agaacaaaaa gagcag 1016

<210> 40
<211> 5872
<212> DNA
<213> Homo sapien

<400> 40
ggagccgggg acggcggcac cgggcgggta gggacaagac taccgcgcgt gcccccgcct 60

ggtggcagcc cctctctgcg tccctcgcgg cctggcaaaa ttacattcgg ccgagagttc 120

acgctgggga agctctctga atgcctctga gaagcgagat ccggcgccat ctcaccgacg 180

agcctcccct ttaccgcccc gtgcgtttcc tcagcacttt aggaactaaa gcctgtctgg 240

gtagctccct aacaggctct ggagctcaat ccctgggcag ggaaaagggg gtcctcgggg 300

ctccccgctc gctgtccttt ttctggacag gcagttcctt ggccacctgg tagggccgcg 360

ttgcctggca acggcggggt ccttcttggc tcggcggcgc tcggggcctg aggggagaaa 420

accgccgcgg agggcgctgg gggtggcggc ggcggtccgg gaggtggtcg cgcgactgcg 480

tggagcgcca gggcgtccga cctctgcacc tgagagaaga tgaacacggc cgaccaggcc 540

cgggtggggc ccgcggacga cgggcctgcg ccgtctgggg aggaggaggg agagggggggc 600

ggcgaggcgg gcgggaagga gccagcagcg gacgcggccc cggggcccag cgctgcattc 660

cgcctcatgg tgactcggcg ggagccggcc gtgaagctgc agtatgcggt gagcggcctg 720

gaaccgctgg cttggtccga ggaccaccgc gtgtctgtgt ccacggcccg cagcatcgct 780

gtgctggagc tcatctgcga cgtgcacaac ccgggccagg acctggttat ccaccgcacc 840

tcggtgcccg caccgctcaa cagctgtctc ctcaaagttg gctcaaaaac agaagttgct 900

gagtgcaagg agaaattcgc cgcctccaag gaccccacgg tcagtcagac tttcatgttg 960

gatagggtgt tcaaccctga ggggaaggct ttaccaccaa tgagaggatt caagtacacc 1020

agctggtctc ccatgggttg cgatgctaat ggcaggtgcc tcttggcagc actgaccatg 1080

gacaatcgcc tgaccatcca ggcaaatctc aacagactgc agtgggtcca gctggttgac 1140

ctgactgaga tctatggaga acgtctttat gagaccagtt acaggctctc taaaaatgag 1200

gccccggaag gaaatctcgg ggattttgct gagtttcaga ggagacacag catgcagacc 1260

ccagtcagaa tggagtggtc gggcatctgt accacccagc aggtcaagca taacaacgaa 1320

tgccgggacg ttggcagtgt gctcctggct gtcctctttg aaaacggtaa tatcgccgtg 1380

tggcagtttc agctgccgtt tgtaggaaaa gaatccatct cttcatgcaa cacaattgag 1440

tcaggaatca cctctcccag tgtattgttt tggtgggaat atgagcacaa taatcgaaaa 1500

atgagtggcc ttattgtggg gagtgctttt ggacccataa aaattcttcc tgtcaatctc 1560

aaagcagtca aaggctattt cactttaagg cagcctgtta tcttgtggaa agaaatggac 1620

cagttacctg tgcacagtat caaatgtgtg ccactttatc atccttacca gaagtgtagt 1680

tgcagcttag tagtggctgc aagaggctct tatgtatttt ggtgtcttct tctgatctcc 1740

aaagcagggc tgaatgttca caattcccat gtcacaggcc ttcactcact gccaattgtc 1800

tccatgactg cagacaaaca gaatggaaca gtctatactt gctccagtga cggaaaggtg 1860

aggcagctga ttcccatttt cacagatgtt gcattgaagt ttgaacacca gttgattaaa 1920

ctctcagatg tgtttggctc agtgaggact cacgggatag cagtgagccc ctgcggtgca 1980

tacctggcca tcatcaccac tgagggcatg atcaacggcc tccaccctgt taacaaaaac 2040

taccaggtcc aatttgttac tctcaaaacc tttgaagaag cagctgctca gctcctggaa 2100

tcttcagttc aaaacctttt taagcaggta gatttaatag acctagtacg ctggaagatt 2160

ttaaaagata aacatatccc tcaattttta caagaagctt tggaaaaaaa gattgaaagc 2220

agtggagtca cctatttttg gcgttttaag cttttcctcc tgaggatttt atatcagtca 2280

atgcagaaaa ccccttcaga agccttgtgg aaacccaccc atgaggactc aaaaatctta 2340

ctagtggatt cgcctgggat gggcaatgct gacgatgaac agcaggaaga aggcacttct 2400

tccaaacagg tggtgaagca aggcctgcag gagaggagca aggaaggaga tgtagaggag 2460

cccactgatg actcgctccc cacgactgga gatgctggag gccgtgagcc aatggaagag 2520

aaactcctgg aaatccaagg gaaaatcgaa gctgtggaga tgcacttgac cagggaacac 2580

atgaagcgag tcttaggaga agtgtatctg cacacctgga tcacagaaaa cactagcatc 2640

cccacccgcg gactctgtaa ctttttaatg tctgatgaag agtatgatga cagaactgca 2700

cgggtgctga ttggacatat ctcaaagaag atgaacaaac agactttccc tgagcactgt 2760

agtttgtgta aagagatctt gccattcaca gatcgcaaac aggcagtctg ttccaatggc 2820

cacatttggc tccggtgctt cttaacctac cagtcctgcc agagtttgat atatagaagg 2880

tgtttgctcc atgacagcat tgcccggcat ccagctccag aagatcccga ctggattaag 2940

aggttactgc aaagcccctg ccctttctgt gattctcctg tcttctaaat aatcagtgac 3000

gggaagatgg aagggcatga tgaactctgc catagaaaac ttcctccagc ctgaagagaa 3060

ggatgcactg gaggaagccg gaccctcacg agtggagaga agtccttggt gattgtaaag 3120

agggcccctg gagctcattt ctgaatcgca ctctccattt ccagagacta aaggatgtcc 3180

tttgaaatgg ctggactcag agagttggag tcgttttgag atgagcatta gccccagctt 3240

tgtaaccaat gaggaacact tacttatttt taagtatctt gacagaagca atttgaacac 3300

agtgtcccgt catttctaga aacagaatgg tctcttctag agagcttgga taaggacctt 3360

gctgggttga gttaggtttt aatccttgcc ttggtttgga actgccttcg ggctccagaa 3420

cttaaattgc ttggtccgtg gcatctgatg taccaacaga gattaaaagt gtaaagcaac 3480

acatgggctg atgttttgtt ctcagaaaat agctgctggt ctgcatccct ccattcttgt 3540

tttttatgca tatggaaaac attttcctaa aactctatat tcttaagttg aagccaagac 3600

taaaatttaa tgtgtcaaat gatctggtga ctattataat gaataattgt gacttatttt 3660

tcattctctc ctgggtcatc aggtttcctg acccaactcc ttaatccgta taaagatgtc 3720
aaatactgta gttcacccac gccacagccc tgcttcagac ttaactgtgg tagcctagat 3780
gagctatttg tacacagagg aaaaaaagat attttcctct tttagtaata agactttcag 3840
tatttttaat gttgacattt ccagatgttt catttagtat ccaggggtct gtctggagac 3900
ttctagagag ggacagctca gaagtgagac ccttgagctc tggtgctgta aacttgtgca 3960
attaagttga acagagcctg ggaatttctt tcctctgcac agtcccttga tatttggaat 4020
ccaggttctg cccccaaccc ctacccaccc agtggtctgt taagatgtct cagatggggc 4080
tgggcttggt ggctcacgcc tgtaatccca gcactttggg aggctgaggc gggtggatca 4140
cctgaggtca ggagtttgag accagcctgg ccaacatggt gaaaccccat ctctactaaa 4200
aacacacaca caaattagcc aggcatggtg gcacatgcct gtactcccag ctactcagga 4260
ggctgaggca ggagaatcat ttgaaccccg gaggtggagg ttgcagtgag ccgacattgt 4320
gccgcttcat tccagcctgg gtgacagagt gaaactcttg tctcaaaagt aaaaaaataa 4380
taatgtttaa aaatatttca atgtggagac aagctcaaaa tgaaattaga cacattccat 4440
tacccaggta aaagaagggg aagcctgact tgatagtagt attcaggaaa aaagagttgg 4500
cagttttatt tggccaaatt ccaatatcag ctcatggtac agcacaccgg gggaggggga 4560
cgggaggcga gaactaaggc tttttaagaa tgtgttgatg gaagtatgtg cctagatcaa 4620
aagaataatc cccccggact ccagtgtaag atcaattact gttggaatat tgtgttcctt 4680
tctagatatc acattttaag cagactttgg ccaagtagta cagtgtttgc aggagcagta 4740
acaagatggt gataactttg aaaatacttc tcaaaagaaa aataaaaaag aattagggaa 4800
gttcagtctg gagataattc agaaatacag atgataattg ttttcaaatt cttgaaggaa 4860
atgggagaga gaataggcta attctgtatt gcttcagaaa ccaaatggaa acaattaaat 4920
tccattagag aaacggttgg aaaatatgag gaggatttag ttcagtacga ggaagctgtt 4980
tctaatactt tttgttggtt aaaaatacat tccgctgctg tggaaagcct gtagctgcca 5040
ggagtgttac agagggcatt cctcccttga gttgacattt gtgccaaacc ggctttgagg 5100
gcttctccag cttttaagat gcgataatga taagatgatc atcgggaaaa catccctcag 5160
atgaaacgtt cacaggctgg ctctgaaaac tggcattcag atgattgcgg ctcccccata 5220
ctgtaggaat attgtttatg gcttaaggtt gcctcgctcc tcatctgtaa tcagtgaaag 5280
tttatccaga ggttaattac cggttttctg gtgggtatct gggaactgag gatgggagat 5340
taactgttgt atatgaccat agtaaagcaa aagactgtta gagaatgagt aaacgttcgt 5400

tttcctccct acagaattta cagttactct ctgtccattc cactcactac tgtcttcatc 5460

acacacacag aggcaaacgt ctgattcaga tagccaggtg tgccatgcat gcactccacc 5520

atattgtgat ctcttcgagg cttgtttctg tcccctgtcc tccacagtcc tggattgtta 5580

atgaatagtt catacatgtt tgttaaataa atataccttc tttaaaattt acagaaaaga 5640

tcaaaagata cacaaaacaa acagggctgg gcggtaacca gggcaacgcg ggcccggggg 5700

gaagtgtttc cgccccaatc ccgcattacg tgagacaccg ggaatggaga tgatgagcaa 5760

gtaacgatga acgaacgacg aggaaagaag cagaaacaac aagacaacac acacagagaa 5820

caaaagtaaa ggaggcagag gagagaagac agagagagaa caaaaagagc ag 5872

<210> 41
<211> 757
<212> DNA
<213> Homo sapien

<400> 41
gcactgacca tataggcatg ggtcactaga gcagccgagc ggcgcagtgt gatggatgcg 60

tggtcgcggc gaggtacaga gtcctgttat ttttctcttc ggccctattt ggctgctttt 120

attaatgcat cagaacttta tgttataatc atatggattt atacgtaaat taagaaaaaa 180

tgtccaattt cattcagttc atatgttcta aacgtattgc tgatcattct taaatgagac 240

tccaggttta cattcttaca taaagtgcag ggatcccgaa gttagcccca aagatcccct 300

tgtccttttt cagacttgct caaatgttac cttatcagtg gggcctttcc tgaccacact 360

ttaaaagacc tcaacaccca cccatgggcc ttgtccctcc ttcccggctt catttttgg 420

catatactta tcaaatgtga acatatgatg catttgcttt atttatcatc gatcttcact 480

cactggcatg taagctctgt gagtgcaaag attttcatct agctatcttc cagaacagtg 540

tctggcacag agaaggagct ctatgaacta tgtgttgaat gaatggctat ctttgccttg 600

taaaccccat gctactggct ctctcttcag gtggctgacc actgcacccc aagcatgctg 660

gaaagacagg agtcccaagc cctcccttct gtctactcaa gcttgggtat catggtcata 720

gtgttcctgg tgaatgtatc gtcacatcac aaaaaaa 757

<210> 42
<211> 1895
<212> DNA
<213> Homo sapien

<400> 42
agttttgcgt tgcgccttgt tgcttgcgtc cgtcgtttgt ttgcctgtgg cttctgccgt 60

ctttttgtgg gctcgccgtt gcccgtgcct gccgctgtca cccttggcgc ccgcctgggt 120

gctggggtcc gcgattgcag tcctttgata gtgttagtga ggggggctgt cgtgcgtgtt 180

gtgtatggtc cgcatggggg agtcattagc atgttgagtt gactgtctcc cggtccgttt 240

aacgtgcgtc tggaaggtac atttttgtaa atcaagtagt tggaactaaa tccaacactg 300

ataattgcca tttcaacact gatctgaaaa gtgaattaga agctgtacaa tatcatcatt 360

agaaattctg catatggcta ataaatattc cttttaaaat taatagagtc taaagtcttc 420

caaatgatct ttacagatag agtgggacac tatagaattc tgattatatg atttagattt 480

tagggatgtt ttaacatttt caaaccacta gaaggacatt gggaacagaa agtaatagag 540

ccaacgtcac gtggtaatga tcaatagtcc agttctacga ggagaacaat tttaagctct 600

tcactgaggc caattctgct gtattctaat tccttttagg ttcttggtgg tagagtaatg 660

agctatgacc atctctggaa tactggtgag gaaaatggca gcagtaaaga aatgaggaaa 720

atattaccta attaatgata aagttaggtc cagtacagag tcctgttatt tttctctttg 780

gccctatttg gctgctttta ttaatgcatc agaactttat gtataatcat atggatttat 840

acgtaaatta agaaaaaatg tccatttcat tcagttcata tgttctaaac gtattgctga 900

tcattcttaa atgagactcc aggtttacat tcttacataa agtgcaggga tcccgaagtt 960

agccccaaag atccccttgc ctttttcaga cttgctcaaa tgttacctta tcagtggggc 1020

ctttcctgac cacactttaa aaacctcaac acccacccat gggccttgtc ctccttcccg 1080

gcttcatttt ttggcatata cttatcaaat gtgaacatat gatgcatttg ctttatttat 1140

catcgatctt cactcactgg catgtaagct ctgtgagtgc aaagattttc atctagctat 1200

cttccagaac agtgtctggc acagagaagg agctctatga atatgtgttg aatgaatgac 1260

tatctttgcc ttgtaaaccc catgctattg gctctctctt caggtggctg accactgcac 1320

cccagggcat gctggaaaga caggagtccc aagccctccc ttctgctcta ctccaagctt 1380

ttcttcttgg gtgcattgac tcaagtcagg tagtacttct ctatgtctga gcacagacgg 1440

gctgtgttca tgtatttgta catatgtgtg aatagacaga gaaactagta gcatgggtat 1500

gtgggggaat ccatctttta gggagagatt tatctactgt ttttgtgttt agtctcacct 1560

cagaccaggt taagctggcc agggctcata gttttcaaag agcaacagaa aaaatctgtt 1620

tagcttacat tctaagcatg ttctctttat ctttcctgaa agctatccac ttttaatttc 1680

atctcatact acagagaaaa tattatttga aactgatagc tttccagaag gttactgaaa 1740

tcacttattt ttcagtgtct tcactggcac cattcatagt agctaacatt agccactttc 1800

cgtgggcctg gtgctgtgtt aaagtgcttt acatatatta tttcttttaa tccgcacaat 1860

gatcctttca agtaggtact gttattattc ccaat 1895

<210> 43
<211> 674
<212> DNA
<213> Homo sapien

<400> 43
gccttttgtg atggatgagg cggccgaggt tcgaccggcg agggaggaag aagcgcgaag 60

agccgttaga tcagtgccgg atgtggtgac ggcgtgggag actgcgggcc cgtagctggg 120

atctgcgagg tgcaagaaag cctttgaggt gataggtgta tgaaatgtca tcataacaga 180

tgtaaccaaa aacttgataa aaggttgtga aaaaactact aggatcacgc ggcatgtatt 240

gagcatatag gttgctgtag atgaatgttc ttagctgtca tgtttaaaaa tacttctgct 300

tcgttacctc aagtgtggca tgcagcattt tggaaggaaa attgaagacg tgttcaagaa 360

aacatgaaca gaagcaaatg atgaaaatga gcattttact tgacgttgat aacatcacaa 420

taaattataa agaaaaaaaa aaaaaaaaag gctgggggat aactcagggc tcaatagcgt 480

gttcccgtgg tgtgtgacaa ttgggctata ctccgcggcc tccacaaatt cccccacgac 540

caacattgcg ggagacacca aaagagaaaa caggaagaag caaaagcaca aaggccaaag 600

cagacaccaa gacaaacgaa gaagaaaaca ggggaacaaa caaaagagaa gacaaaaacg 660

aaaaaaaaga gaaa 674

<210> 44
<211> 323
<212> DNA
<213> Homo sapien

<400> 44
cgaggtaatg cttcggtgtg atgacagcgc acgttaacct cgaattcctg ggctcaggtg 60

atcctcccac ttcctgcctc ctgacttggc tgaaactaca ggcacccgcc tccaccgcca 120

gggcccagcc cacagctcct ttgacctcag tgacaggcac tcaccgtacc tgaccgccca 180

aactgaagcc tcacatttgt cccagcacgt gcccgacacc ctcatgggct accccattga 240

ccatgacaag tattccctct gctccaggga gaaaagccta ggtcccagac ctgacccatt 300

aaaacccaat cattccagct ttc 323

<210> 45
<211> 568
<212> DNA
<213> Homo sapien

<400> 45

agcgggtggg ttctgggcca gcccagcctg gaggaggtgt gagaggctga gccactgctc 60

agcttagcgg ggggaccact tagtgaccaa caccctgagg gaggccccag catcccctac 120

ttagcttggc agcagcagcg ggataaatag gggggcactg ctgcctgtga gccagcccag 180

catagccatg ggtgtgtggg ggaagcagac agagacaggg tcttgctccg ctgtccaggc 240

tggaatgctt cggtgtgatg acagcgcacg ttaacctcga attcctgggc tcaggtgatc 300

ctcccacttc cgcctcctga cttgctgaaa ctacaggcac ccgcctccac cgccaggccc 360

agcccacagc tcctttgacc tcagtgacag gcactcacct acctgacccc caaactgaag 420

cctcactttt cccagccgtg tccacaccct ctgggctacc ccattaccat gacaagtatt 480

ccctctgctc caggagaaaa gccaggtccc agacctgacc cattaaaacc caatcattcc 540

aaaaaaaaaa aaaaaactct ccagcgct 568

<210> 46
<211> 800
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (749)..(749)
<223> a, c, g or t

<400> 46
cgtggtcgcg gcgaggtgga gagcagagct gctctacccc cacctgctcc gtgttggccc 60

cagacccaac tcaggccagt ggacgtctgt cctagggctg cgtgtgagat cggtgggtgc 120

agggaacaca gcaggaagct gtgcctagaa gaagggggtc agggtcagtg tgagatgctc 180

ctaccttcag gtaaatgccc tcattctgtt agtggccacg ttcgcagcgg gctttcttgt 240

catttaccac caaaccgaac tcctagacac ataaatacac aggggatcta cccccaaaca 300

ctggcgacac taccgaacaa cggaagcagc cagggccagt agctggacag gcacaatctc 360

agcctggcag gcagcagtgc aggctgcgcg ggcctcgtgg ttggcgcagg gaggcaattg 420

cttcctgcaa tcttacttcc ctgtgtcttt ccactcggcc tgagcccgtg ccagtctggg 480

gactctgccg gccagccagc acaactgcgt ctcgccccag gggcctgact cgttgaagga 540

atgaatgaac tgactgattt tgcagggatg ggaggctggg agactgagag gtttcattta 600

aacgggaaac gctcagatct ggtggtttca caacataaaa aaaaaaaaaa aaaaacaaaa 660

aaaaaaaaaa ggctgtgggg gtaacccagg gccaaagcgc ggtttcccgg gggtgaaaat 720

ttgttttccc gcccccccatc tcccccatnt ccccgaacaa acaaaacatg aggaagaaac 780

aagcaaacaa gacaccaaga 800

<210> 47
<211> 810
<212> DNA
<213> Homo sapien

<400> 47
gaaaaaaaga acagaaagaa aagagaaaag acaacacgac agaattatac atataggggc 60

ctggggtatc tagatgcatg tcgagcggcg catgtgtgat ggatgcggcg cccgggcagg 120

tactgggaaa cacggcaggt ttggtgtggg gtgggaaaat gttgaaacca cttgtagcaa 180

gccacaccta ttgggggaga ggtgataaga ttattaagct gaagtaaggc tgctagaatg 240

gcctatagaa accgcacttg gacagtggat ggcagcagaa ggccatttca ttaacagatg 300

ctgctggcag ttttgtcctg atggttggaa tccttcacca agtaatttgt atctaattac 360

aaattgtttg tatctgacac atcaatcatg attttactca gcaggcacaa cagtcaagga 420

aacacaacaa cacaccacaa caaaaacaca aaaacgcgcg ggggggacac cccagggacg 480

acgggatgga tcccggggcg gcgaactcgg tcaccccggc gccaaaattt cccaaccaaa 540

accatcggcg acaaaacggc caaggaagca agagaaacaa gaggaaacaa gaggaagaag 600

gacacggaaa gacgaaaagg agcaagaagc acgcggacaa gagacgaaga gggaggaggg 660

cgagaagagg agagagggag aggagggagg gagagacgcc aagaggggga gcgggggata 720

gagacagggg gggaggagga gagaaaaaga ggaggaaggg ggaggggggg agagcgaagg 780

ggaggaaaaa aggaagacgg agggcccgaa 810

<210> 48
<211> 818
<212> DNA
<213> Homo sapien

<400> 48
ggtcgcggcc gaggtggtgg agttgtttga aagtgacaca gcagcagtag aagcagtggt 60

gggcgaagcc caggtgaccc tcagaacgtt gcacaagaac atcagggaaa agaaccagaa 120

tcctttaagg aaaatgttct tcatgtatga gagactaaag tgatttttct aagaaagttc 180

agcccttctc tgacttacct ggacatttct agatacttcc aaaggaccct ctgggaatcc 240

atagcttcct aatctggaga tgggaggtca taagggagac gctgtggggt tccttgaagt 300

ttcttgggtt cacagaggag ccccctccac ttggtgttct cccgtgagcc agcctccacc 360

tgccaaagac actctggtcc tcgtatagtg agtaatgggg ctcagggcct ctccaacaac 420

agagaggagc tgatgctgta gggctgaccc cgtgacttcc tgagtcctca ccctgtccag 480

tgctttgaga ttcttcccac ctccccatcc tcaccagccg gatcgggcgc tgtgcagtgt 540

ggtcagcatt gggtgaagaa agtcatttcc tcgttggggc aggtattcct ctttatctct 600

cattacactg gaaatgttta tttctgctgt atcatccgtg ctcaaacgtt taagttctgt 660

caggctcacc ttctctctgg aaagaatttg cttaacttga cattccatgg tgcccgctaa 720

taaaatatat tttgaaccaa aaaaaaaaaa aaaaaaacgc tggggtaccc gggcaaaacc 780

gtcccggtga aatggtcccc cacaccaaaa aaaaaagg 818

<210> 49
<211> 1691
<212> DNA
<213> Homo sapien

<400> 49
gctgtagctg ctctgtgaaa ggtcaggcct gcccctcatg aggctccctt tatcctccta 60

aattctgggg catctacatg acgctttcta gtccaccttt gcctccgcag atcatggcta 120

ctaacctgac ctttgtctgt acttgagcac ccttcgcgat ttaactttca tgtagcgtcc 180

gacttctaat atggatttga atttcttgac tgttactgct cagaacaatc acccttttg 240

agcaggagct ggaggttatg ccgacaatga catcggagcc gtctcaacca cagggcatgg 300

ggaaagcatc ctgaaggtga acctggctag actcaccctg ttccacatag aacaaggaaa 360

gacggtagaa gaggctgcgg acctatcgtt gggttatatg aagtcaaggg ttaaaggttt 420

aggtggcctc atcgtggtta gcaaaacagg agactgggtg gcaaagtgga cctccacctc 480

catgccctgg gcagccgcca aggacggcaa gctgcacttc ggaattgatc ctgacgatac 540

tactatcacc gaccttccct aagccgctgg aagattgtat tccagatgct agcttagagg 600

tcaagtacag tctcctcatg agacatagcc taatcaatta gatctagaat tggaaaaatt 660

gtcccgtctg tcacttgttt tgttgcctta ataagcatct gaatgtttgg ttgtggggcg 720

ggttctgaag cgatgagaga aatgcccgta ttaggaggat tacttgagcc ctggaggtca 780

aagctgaggt gagccatgat tactccactg cactccagcc tgggcaacag agccaggccc 840

tgtatcaaaa aaaaaagaaa agggaaaaaa gaaagaaagc agcagcatga tcctgacatg 900

acagatgtgg gagacccaca gcctgcagac actgtgggct ggaaggtggg aagggagggg 960

ccggtggagg tggagctgtt tgaaagtgac acagcagcag tagaagcagt ggtgggcgaa 1020

gcccaggtga ccctcagaac gttgcacaag aacatcaggg aaaagaacca gaatccttta 1080

aggaaaatgt tcttcatgta tgagagacta aagtgatttt tctaagaaag ttcagccctt 1140

ctctgactta cctggacatt tctagatact tccaaaggac cctctgggaa tccatagctt 1200

cctaatctgg agatgggagg tcataaggga gacgctgtgg ggttccttga agtttcttgg 1260

gttcacagag gagccccctc acttggtgtt ctcccgtgag ccagcctcca cctgccaaag 1320

acactctggt cctcgtatag tgagtaatgg ggctcagggc ctctccaaca acagagagga 1380

gctgatgctg tagggctgac cccgtgactt cctgagtcct caccctgtcc agtgctttga 1440

gattcttccc acctccccat cctcaccagc cggatcgggc gctgtgcagt gtggtcagca 1500

tggtgaagaa agtcatttcc tcggtgggca gtattcctct ttatctctca ttacactgga 1560

aatgttattt ctgctgtatc atccgtgctc aacgttttag tctgtcaggc tcaccttctc 1620

tctggaaaga atttgcttaa cttgacattc catgtgccgc taataaaata tattttgaaa 1680

gaaaaaaaaa a 1691

<210> 50
<211> 657
<212> DNA
<213> Homo sapien

<400> 50
gggtgctata agcatggtct taatcagctc cgaccggcgc agttgtgatg gattggtcgc 60

ggcgaggtat tgttagcatt cccatttac agtggaggaa gctgaggctc agagatgtta 120

agcaagctta gctgaatggc cacaccacca gcgaagtgcc tgagccaaga tttggactcg 180

agtccatggg acccccacgc tcgtgaggct gactgctctg ctcccactgg gtcccttcat 240

gaggtcgtcc cacagcactg ctagttccag ggcgagtgcc agcacatggc cccactggga 300

gccgggggcc tgatttaggt ctactggaaa aagtgtcacc tttggggaca ctcaaggcac 360

aggctggttg gtttcgttgc tggattttat atactcatgc cctaaccctg tgttcctggt 420

ttctataagg ccccggggca aggtgcaagg aatttgcaaa tagggcctgt atgacttatt 480

tcctaggaca cgggaagctt ttcttacctc ctttctaccc tcttctccaa cctgaactcc 540

caagtttctt ctcctgaagg tctttgcact ataagcgcca aggagcccgt gtgcgtggca 600

ggggcggctg ggagggtatc tggagaacct tagtgaggcc tctggcctag ccagaga 657

<210> 51
<211> 1244
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (37)..(37)
<223> a, c, g or t

<400> 51
tgactggagt tccatgaggg agggaaattg atgtcanagt gtcattttaa agcttaagct 60

gaaagtttat tttttaaatt ctcattcatt catttagcat atattgattg agcatctaca 120

atgtgccagt tgtagaattc catctcagaa gagacttgac ttgtggatgg tggaggggca 180

gtcctgctcg gaagcagatg atgtgaaatg ttcctttcca gtctggttca cgatgtttaa 240

cagatttgtc aggtcaccac tgtgacccca agctttgctg gcagattgtt atatagtatt 300

tactgagagc cctgctatct ggtaaaggca gttaaaaagc ctgcaatctc gactcatttc 360

cagcatgaac agactggtcc ttgctgcttt acacaataat caaagctacc ttttatggcg 420

tgctcgccac tcccaagcac tgggcgaagt gctttacccg tcttcccctc cgcgatgcct 480

catgcccact ttagcagata gtactgttag cattcccatt ttacagtgga ggaagctgag 540

gctcagagag gttaagcaag cttagctgaa tggccacacc accagcgaag tgcctgagcc 600

aagatttgga ctcgagtcca tgggaccccc acgctcgtga gctgactgct ctgctccact 660

gggtcccttc atgaggtcgt cccacagcac tgctagttcc agggcgagtg ccagcacatg 720

gccccactgg gagccggggc ctgacttagg tctactggaa aaagtgtcac ctttggggac 780

actcaaggac aggctggttg gtttcgttgt ggattttata tactcatgcc ctaaccctgt 840

gttcctggtt tctataaggc cccggggaag gtgcaaggaa tttgcaaata gggcctgtat 900

gacttatttc ctaggacacg ggaagctttt cttacctcct ttctaccctc ttctccaacc 960

tgaactccca agtttcttct cctgaaggtc tttgcactat aagcgccaag gagcccgtgt 1020

gcgtggcagg ggcggctggg agggtatctg gagaacctta gtgaggcctc tggcctagcc 1080

agagaggcaa taagcttggg gacgttccgt tctgggttct gacgttgttg gttctgacgt 1140

cgttgtgctc ttttgtaaga ggaatttcat accttggaga cgctttgtac atatttgtaa 1200

tgactttatt aaaaaactga ttgtgcactt ctaaaaaaaa aaaa 1244

<210> 52
<211> 358
<212> DNA
<213> Homo sapien

<400> 52
agaatgatca tcatataggc aatggttctc tagatcatgc tcgagcggcc cagggtgatg 60

gatcgccggg caggtagaga agcctacctg ccctaatggc tcagggctat atccacctcc 120

cggataaccc tggcccttgg gactccatca tctccttgaa gtagcactga gaatccaaga 180

agaggctccg ctgctttttg cacatgttac tgagttacat ctcaggaaga tttttaagca 240

cgaggaagga aaatacaggc ctggccaagc agggtcccct tttcggtatc atctttgttc 300

ctaataagca atcaaggggg tgggtgtgtt ggctggtaaa ggaactacta agattcag 358

<210> 53
<211> 1589
<212> DNA
<213> Homo sapien

<400> 53
tggatgtata aggcaggttt tatagaacca tttagattca acattaatgg tagagtggca 60

ttttaccaaa aaaatgggtg tatttgattt gggtgctgta aggcaatttg ctaggacatg 120

ggataatcag attacacaaa atctaggcag tgaacaagtc ttcatcctgg cccaggaaat 180

agcctattaa aaaatgctgt ccaggccagg cacagtggct cacacctgta atcccaggac 240

ttcgggaggc tgaggctgga ggattgcttg agttcaagac cagcctgagc aacacagtga 300

aaacccatct caaaaaaaaa aaaaaaaaca aaccaaaaaa actggtccag ctggtgggac 360

tttcaggatt caggactgct gggggatcaa gcccaaggat gtttttcaga gctctgtgga 420

atttaagatg ctcgaaaaga gtgtccaaga ggagtaaagg tcatgacaga atttactccc 480

aggacaatct aagttctgcc acaagtaccc gtggtgtctg ttcccacaac aatggccctt 540

tcacaagctc ttgcctcaca acccctgcag aagtccttca acaaaactaa taatagacta 600

gtgaaaccta ctcctcacat gggtaagagt tgcagtgggc aggtgaccct cctccctgcc 660

cccatccttt gcttcctcaa gctccctgcc aacctctgga tacatcaatg ggaaggaaac 720

cagggaagca tagacctata gtacaacagg ggtgtagtga ccactggacc tgatgaagcg 780

aatctgcctg aaatttaata cgccttttta tttcccttct gtgttaaatc aaatgatctg 840

ttctgcactg agccaagcaa gttacttta aaactggtgg caccactcat ttgggacttg 900

gagactgctt ttatccagaa cctgttaaga gaacagggga tttaaataca aaggaatatg 960

aaggtggtgt gccttaaaga cagtctaaaa ttaggtttta gtttgttaca ttattttgaa 1020

atattaaaca tgaaaatgtt aaatcaggat gtgtgagttt taagatgttg aacactgtcc 1080

tacatcagtg aggagggagg caataaagta atttcagagt aaaacagatt gaggatgaaa 1140

ccaagacaga agtgatgatt tggcttttta tgatttttgc tgtggaaatg gcagtcgtgt 1200

gacttttcac ttgcagttta aatgaaaggg tgaagagaag cctacctgcc ctaatggctc 1260

agggctatat ccacctcccg gataaccctg gcccttggga ctccatcatc tccttgaagt 1320

agcactgaga atccaagaag aggctccgct gctttttgca catgttactg agttacatct 1380

caggaagatt tttaagcacg aggaaggaaa atacaggcct ggccaagcag ggtccccttt 1440

tcggtatcat ctttgttcct aataagcaat caaggggtg ggtgtgttgg ctggtaaagg 1500

aactactaag attcagaagc ttgtagtctt cattattttg ttttacaggt taaaataaac 1560

cacttgactg ggaaaaaaaa atggcggtc 1589

<210> 54
<211> 554
<212> DNA
<213> Homo sapien

<400> 54
tgccgaccgc gcgtagtgat ggatgagcgg cgcccgggca ggtacctggg gcttccagaa 60

tataccaaat tcagagagcc cacattcacc cctgactgtg cttggagcaa acctgaaagt 120

tcactcccaa gaggcttgtt ccagcccatt cctttattct ggaaagtaat tcttggtatt 180

gaaacggaaa actgggacaa agggagcttg aggaaaacga aaacaaacaa tgaaactgga 240

gatatgctat ttagtcttaa cccatcacag atatgctgtt tggccttaac ccatgtggaa 300

atttgtaaac tttgtcagga tttccctgtg catggtggtg aaagtcatgt agggaagaaa 360

aaattcaccg tgtaatctct ttagaagtca caaaaaaaaa aaaagctggg cgttaatcag 420

ggccataggc tgttcccggt ggtgaaatgg ttatccgcct ccacaattcc cacacaacaa 480

gggaagccaa ggtaaggcag gaggagaaag agagagcgag ggaaaagaca aaccaaacaa 540

caaccaaaaa cgcc 554

<210> 55
<211> 2581
<212> DNA
<213> Homo sapien

<400> 55
ccccaagaag cattcagtag ccttgtgctc ctaacttgtg accttgtgtg tggcgtggct 60

cccccactaa gtgtaaattt gtgttttcaa gccttccgag gacgaagtgg taagatgaaa 120

gctggcgttg ccttcgtgtt tatccgggct tctctcttcc catccttgtg atcactctgc 180

tgaccctgcc acaccctggg gccatacaca tgactcctgt gcctctgcat ctcactggcc 240

atttcaaacc agttcgtgag cctgtgttct aaaaagctca tctccattaa ctgcatctca 300

tgtcggtcac ctctgtcttt gtttcattga ctttgctgat ttaacacctc tgagaatggc 360

tttgaaagga gctacaagta atgtcttcac tggcattctt gaagtgactc ctcttggggg 420

ttaagtccca ttggcctctg ccttcctctc ctgtgatgtt gtggttgatc tactcccagc 480

caccgggagt agccgtttcc tccctgctcc tcctagtgct tgtgagcaaa ccttaccctt 540

cctccctgtc tgagccagcc tcttcctgct gccctcctca gcttgatgat gcttcaactt 600

agaagtggtg gacccttctc ggggtcagct ctacctccat gtgacccagg tgagagggag 660

acagctttca aaaggaggct ttgccttcca gatgcatccc aaaggaaata atccattagt 720

agaggcattt tgtggaggag tgaaggtgga agccagggtg cagtagggtg aggactggct 780

gggcagagag gaaactgagg cagaagatgt ggacagggac tctgcagcga ttcatggttg 840

gtcatggccg attgatacgg gcgtgtgctg agtggcagac tcataagtgc tgagctggat 900

ttctcaccca gtccttgctt ctcctgagaa cacctgcagg aagctgggaa tgaaggagag 960

aaggcaaggg taaggcctgg aagcgaggct tctctcctgt cctgcagttt attcggtggg 1020

agaaacttga ggtagaataa aaacactgaa gggattggct gtaagggagc ccagtggtca 1080

ctgccctccc agcccatagg agtagagatc agcactcctg ggagccatgg acttcttcct 1140

ctcaatgcgg gccctggggc ggcagccagc agtggtagga aagagctctt aaccacggtg 1200

ttgggattta gggaactcag ggaactagga ttaccctagt tttcagggta agtaaggaag 1260

cttgaagagc ctgttccgga agaaaagccc agaaataggc taggtgtcga cagaggtgag 1320

ggagaagcag acgttcgccc agagatggca tggtggagcc agccccctcc acgctggctg 1380

caccccctgtg gcctgggctg ttgtggcttt accagccaag ccactttctc ccatccccat 1440

gttctcagtg atttcccaag gcatttctgg tgtcctttgg gagtggaatc acgtgggttt 1500

tgaaaggaac tgcggtgaaa aatagaccct gacctgaggg caggggccga tggggaggcc 1560

actgagccct caggagtgtc tgaaagctca gaagattctg gtctgggctc tgcgggggga 1620

agccccataa gggagcgcct cctggtcttt ggtcagcttg acagagaggc ccagggaaag 1680

tacctggggc ttccagaata taccaaattc agaagcccac attcacccct gactgtgctt 1740

ggagcaaacc tgaaagttca ctcccaagag cttgttccag cccattcctt tattctggaa 1800

ataattcttg gtattgaaag gaaaactggg acaaagggag cttgaggaaa acgaaaacaa 1860

acaagaaact ggagatatgc tatttagtct taacccaaac agatatgctg tttggcctta 1920

acccatgtgg aaatttgtaa actttgtcag gatttccctg tgcatggtgg tgaaatcatg 1980

tagggaaaaa aaaattcacc gtgtaatctc tttagaagtc acaaaagaaa aagaaggtta 2040

tcttgctccc aaaaggctgt aaaaagaata agtaaagtgg ccatagaggc ctagtcttct 2100

caggacagtg tccgggttga gagtctgtct cctgaagcgc actctgggga aaatcccttc 2160

ctgccctcct gcaggtcctt agggtcccag acccagacag tcactttctc aacagagtgc 2220

cgtcaactca gcacacactc ctctcttgag cacagagccc cagagggaga agaacaaatg 2280

tgttgaaaag aatcttatta agatgtagtt aattaaaatg taatgtattg aggggaatgg 2340

aggtgtccca ggtgagggct aagtcaggca ggatttttgg ggaaggcatt gccgaaatca 2400

ccacctgagc tcaacactgg gtgcttctgg cccctccaga gttgaggtgc catccatggg 2460

aagtgcagtc ccctgcctgg cccaggttca aagcgccaag tagccacaac tcagaatgcc 2520

tgcacgttcc cctcctagcc ttatatcttc tctctggttt cctcccacga cagtttgaca 2580

t 2581

<210> 56
<211> 929
<212> DNA
<213> Homo sapien

<400> 56
gaaaaaagac ggggagaatg atactatggc ccgaatggtg cctctagatc atgctcgagc 60

ggcgcagtgt gatggattgg tcgcggcgag gtctgtggga gcctggccta cagtgtggcc 120

ttccacgtcc accggggccc tcagcctcca gtctcagaca gccctcccag ggctggccag 180

ccagaactga tgtcaccatg cccagagccc cagctcccca tactgcagaa ctgatgatgg 240

tcatgggggg cagtggagca ggggcaggag agcaggatga gcaggaatgc aataatcaag 300

atgatccaga atgagaagga agcggaagac aaggctcagt gtgagaccag ggctcagagc 360

tcagcaaact tccacgactg gctttgaatc agaatcatta tatagcttct cagccacggc 420

ccctgggtta tacagcctta aatggccctg ccaatgctgg tcacagcatt tccctagtcc 480

tggagactcg ggaactaaaa caatcaattc ccctgagcaa taaaattatg gacagctgaa 540

caacacaaag aaaacaaaaa aaaaacggct tgggggatac ctcgtgggcc aaaagcggta 600

ccccgggggt gacagtggta acccggcccc cagatccacc caaatgagag gccacaaagc 660

tggtacagct ctcccacgaa cacgcgcccg cccagagccg cgccgcgacg ccgcgacgcg 720

agcaggccga cgcgcgagag ccgctaccgc gccgccagcg ctgacgagcc aggcaggggg 780

agagcacggc gcggcaccac gacgggcgca cgcgcggcgc gcgggcggag cagcaagcgg 840

cccggaccac ggaagaggac ggcgcggcca atgcccgcga cgcgccagac ggtagcccag 900

ggggcagcag ccgcacgccg actcgagcg 929

<210> 57
<211> 984
<212> DNA
<213> Homo sapien

<400> 57
ggcggccagc gggtgggtga ggccatcttc cccatctacc cgaggccaga ccaaccccgc 60

atgaacccaa aggctcagga tcacgaggac ctgtaccgct actgtggcaa cctggctctg 120

ctccgggcta gcacggaccc cacagcccga cactgtggga gcctggccta cagtgtggcc 180

ttccacgtcc accggggccc tcagcctcca gtctcagaca gccctcccag ggctggccag 240

ccagaactga tgtcaccatg cccagagccc cagctcccca tactgcagaa ctgatgatgg 300

tcatgggggg cagtggagca ggggcaggag agcaggatga gcaggaatgc aataatcaag 360

atgatccaga atgagaagga agcggaagac aaggctcagt gtgagaccag ggtcagagct 420

cagcaaactt ccacgactgg ctttgaatca gaatcatttt gcttctcagc cacggccct 480

gggttacaca gccttaaatg gccctgccaa tgctggtcac agcattccct agtcctggag 540

actcgggaac taaaacaatc aattcccctg agcaataaaa ttatggacag ctgaacaaca 600

caaagaaaac aaaaaaaaaa cggcttgggg gatacctcgt gggccaaaag cggtaccccg 660

ggggtgacag tggtaacccg gcccccagat ccacccaaat gagaggccac aaagctggta 720

cagctctccc acgaacacgc gcccgcccag agccgcgccg cgacgccgcg acgcgagcag 780

gccgacgcgc gagagccgct accgcgccgc cagcgctgac gagccaggca gggggagagc 840

acggcgcggc accacgacgg gcgcacgcgc ggcgcgcggg cggagcagca agcggcccgg 900

accacggaag aggacggcgc ggccaatgcc cgcgacgcgc cagacggtag cccaggggggc 960

agcagccgca cgccgactcg agcg 984

<210> 58
<211> 584
<212> DNA
<213> Homo sapien

<400> 58
tgctcgagcg ccggcattat gatggattcg cgggcgaggt acacgagtgt gtgtgggtat 60

gcatgtgccc actgagagag agtatgcatg tgtgtgcact acgaacacaa gttgctgtgc 120

tggagcagga agctcgggaa acgcgagagg agagcatgca cttttagtca tccacataca 180

ttcctatgct gtgcacacac aacatccacc cagagcctgt ctcccaaatc gatggctcaa 240

ttttctactt tcttatcgta gaccagaccc cacttagacc agccggcttc aaccgttgcc 300

tgcacactta agcatcactt gacggacgct ctgtcaacaa cactctccaa tgcaccacgg 360

cacacacccc tagcaccaac tacatcagac atctctgcac gatgaacttg ggcatcaata 420

cttcatatca cactattctc atattcaata atctccttgg gctgattcca atttcctgcc 480

agccgctgag tgctcctctg cactacaacg ccctcttcct actcccctgc tcaatacacg 540

cttggccgta cctcatggtc actcgcctgt ctcctgctgt gacc 584

<210> 59
<211> 981
<212> DNA
<213> Homo sapien

<400> 59
gaaaaccaga accacacacc gggaaaacta gagaccaaaa aactagccta taacaagaac 60

ccaaaacaag accaacccac agaaaagact acaaaaacag aagctgcaca cacacacata 120

aaaaggtgtg cacacagggc acaatgaaaa aaaaaccaga aaaaacaaac ggcccctgaa 180

agggcaccct catccctata aggcctgtaa ccggtgcacc cagagcagac aagacaagga 240

gagtgtgcta caaacatcca caggtgactc tgtgaccaca aacccaaggc tggactgcaa 300

agtgctttca cagggcccca tgagggcagc tcctcgtcat ttatattttg ctgagggtct 360

ccttgaatgg ctgcttgcat aaaagtgttt agaagactgc cgttggaatc tgaatctatc 420

tgaaatgtaa ttccatttcc tggaaatgta cacgagtgtg tgtgggtatg catgtgccca 480

tgagagagag tgtgcatgtg tgtgcatacg aacacaagtt gctgtgctgg agaggaagct 540

gggaaaggag aggagagcat gcacttttag tcatccacat acatacatat gtgtgcacac 600

acacacatcc acccagagcc tgtctcccaa atcgatggct caaagtcact ttcttatcgt 660

agaccagacc ccacttagac cagcggcttc aaccttgcct gcacattaag atcacttgac 720

ggacgctctg tcaacaacac tctccaatgc accacggcac acacccctag caccaactac 780

atcagacatc tctgcacgat gaacttgggc atcaatactt catatcacac tattctcata 840

ttcaataatc tccttgggct gattccaatt tcctgccagc cgctgagtgc tcctctgcac 900

tacaacgccc tcttcctact cccctgctca atacacgctt ggccgtacct catggtcact 960

cgcctgtctc ctgctgtgac c 981

<210> 60
<211> 657
<212> DNA
<213> Homo sapien

<400> 60
tctagatgct gctcgagcgg cgcattgtga tggattggtc gcggcgaggt tgaggcctcg 60

gttcaatgag ggccccaggc aggcgacggc cacacccagt gtaaacgctg catttctaca 120

acagccacct gtgcaggccc tgcatgctct gtaacctggg gatttggtct tctgaaaagg 180

gcaccagatg aaaaactgct cttaagcctc tgttaacgtg acacagcagt agaacgtcca 240

aggtgttgat ccttggattc atgttgtctc aacttcagag acacacatcg actccttcct 300

gaccactggg catccatccc accaggagct cctaatctga gagctgttaa gaaagtcctc 360

caaaagtgct gactgcagaa gtaggtagct tctgctcaag atgacagaac aagattaact 420

tttgtattct tcagcacctt ttttattttc cattatcaca ctttgatacc ctctaaaaca 480

tttagaacac cctttctaga acgaaaaaaa aaaaaaagaa aaaaaaaaaa aaggctgtgg 540

ggggtactgt gtggccatag ggtgttcccg tggggtgaat tgtgttctcg cccaaattcc 600

ccccatttgc acaaaaagtg agcgggaaag cacggatccc tatatgtgtg gagaaac 657

<210> 61
<211> 140
<212> DNA
<213> Homo sapien

<400> 61
ccgcccgggc aggtacttct ttttatgatt ctttccacac aaaacaatca ctttgtcgca 60

ttagtatcat accccctatg acctggacaa atcggaaata cagtttcaat ctctttctcc 120

ttctctttaa tttataaaaa 140

<210> 62
<211> 247
<212> DNA
<213> Homo sapien

<400> 62
aattgtttaa tacagaaaga gccctaggat gagtgtcctt tcccagcact gctgttagct 60

gatgtgtgac tctgggcaga tcacgtaact tcatcaactt ctgttttgta cttcttttta 120

tgattctttc cacacaaaac aatcactttg tcgcattagt atcatacccc ctatgacctg 180

gacaaatcgg aaatacagtt tcaatctctt tctccttctc tttaatttat aaaaagcatt 240

gatttta 247

<210> 63
<211> 665
<212> DNA
<213> Homo sapien

<400> 63
tcctagtatg catgctcgag ccgcgcgtat gtgatggatg tcgcggcgag gtaccgaaag 60

tgagcggggc aggcacgcta gtcacatggg taatgtggca gggtgtcgtg tcactgtgct 120

ttggctccag ggccagagca gtctgactta gtgttgagct ccaagcatgg aacacttgga 180

gtttggttca tttttgacca gcaagcctct aaatgtggtg ccttgattac ccaccgcaag 240

ggagagtggc agttgccttt ttatgacatg ttaattccag ccaggtgagt caccaggtag 300

ctctcatcct cctgccaggc tcccgctgcc tgtcggtttg gcattgtcag actagatggt 360

gactcagtgt cattggaagg tgacagtttg aggttccaaa ccagttttct cctttaagcc 420

atttcaccct caggagtgat tcctcctttg tttggcattg tcagggaatg tgatgatcca 480

ttcaaatgac ttttggagtt ccaaatagtg tttctacttt aacttccaaa aaaaaaaaaa 540

gaaaaaaaaa aaaagggcgg ggggtaccct ggggcaatag ctgtcccggt ggtggaattg 600

tttttcccgt cccaattccc cccatttttc acaacaatgg tgagcctggt caaaagagaa 660

aaact 665

<210> 64
<211> 612
<212> DNA
<213> Homo sapien

<400> 64
ggggtggcga atgatcgaca tataggggca tgggtctcta gatgctgctc gagcggcgcc 60

attgtgatgg atgcgtggtc gcgccgaggc tttgtgttaa gcgtgaggca gagggagacg 120

ttagtccaga catttccaaa gtgtgggtgg gtccgttggt tcccgagata cttttaggtg 180

gtatggggcc tgcattaagt ggcacaaaaa tcagagcaag aaagcgatgc ccttccccaa 240

ttctctcaat ccttttttatg gccgagaaga tctcagctgg atgccaacat gttccgatgc 300

ctgtggaaga catgccgacg tctcctctgc ctagggagca ggacttgggc ttagggcagg 360

tggaaaaaat tccagacttt tttagcactg tttttgtttt aatggtatat ttttattggc 420

tactttattg tttaggacaa gtggtagtgg cattcctaat ttattggggc acctttctca 480

tataatatag tattagcgca aaaaaaaaaa caaaaaaaaa aaaaggcgtg gggggaaccc 540

ggggccaaag cctgttcccg gggtgacatt ggtttcccgg cccaaaattt ccacaaaatt 600

tgggacaaat gt 612

<210> 65
<211> 365
<212> DNA
<213> Homo sapien

<400> 65
atggtgcgga tcttggccaa tggggaaatc gtgcaggatg acgacccccg agtgaggacc 60

actacccagc caccaagagg tagcattcct cgacagagct tcttcaatag gggccatggt 120

gctcccccag gggtcctgg cccccgccag cagcaggcag gtgccaggct gggtgctgct 180

cagtccccct tcaatgacct caaccggcag ctggtgaaca tgggctttcc gcagtggcat 240

ctcggcaacc atgctgtgga gccggtgacc tccatcctgc tcctcttcct gctcatgatg 300

cttggtgttc gtggcctcct cctggttggc cttgtctacc tggtgtccca cctgagtcag 360

cggtg 365

<210> 66
<211> 784
<212> DNA
<213> Homo sapien

<400> 66
aagtaaaaaa acaccacgag acaggtatga tatagactca tatggcgatg gtcctctaat 60

catctcgagc ggcgacagtg tgatggatcc tgcccgggca ggtactgctg gggggggttc 120

ctgccccccc cgcgcatggt ggaggtaggc tcggaccggc ccggggtagc ttgctgcagt 180

ccttcgcgcc ctcctcgccc tccccaccga catcatgctc cagattcctg cttggattaa 240

cactgggcaa ccgtggttgg aatgtactct gcgctcacga actactgata taccaaaccc 300

tggctcacct tttctctgaa cgaaattaaa aaggacttgt gactgccaaa gaacggaacc 360

ccctagtgca tgacgacgtg cctccatgca cctggccctt cagcgatata ctgattctac 420

tgctcttgag ggcctcgttt actatctgaa ccacacgctg tggcgtacct cgagtgcgtc 480

atagctggtc atccgtggtg tgaacacttg tctatccgcg tcacacattc gcacaacaag 540

gatgacgaaa gtcaaacacg gcacgaaggg agcctttaaa cggccaggga aacagcatgt 600

gcagcttgag tgaggggtca tcacataaca agtaatatct ctacccacct gaccacacaa 660

acacacacaa caaaacacac aaaacaaaca acgcgcggcg ggaaaccccc ggggcgcaac 720

acacacagac cgccggggtc gcacaaggaa tacccgcgcg cacaaaccac aacaaacagc 780

cgaa 784

<210> 67
<211> 1068
<212> DNA
<213> Homo sapien

<400> 67
aagtaaaaaa acaccacgag acaggtatga tatagactca tatggcgatg gtcctctaat 60

catctcgagc ggcgacagtg tgatggatcc tgcccgggca ggtactgctg gggggggttc 120

ctgccccccc cgcgcatggt ggaggtaggc tcggaccggc ccggggtagc ttgctgcagt 180

ccttcgcgcc ctcctcgccc tccccaccga catcatgctc cagattcctg cttggattaa 240

cactgggcaa ccgtggttgg aatgtactct gcgctcacga actactgata taccaaaccc 300

tggctcacct tttctctgaa cgaaattaaa aaggacttgt gactgccaaa gaacggaacc 360

ccctagtgca tgacgacgtg cctccatgca cctggccctt cagcgatata ctgattctac 420

tgctcttgag ggcctcgttt actatctgaa ccaaaaagct tttgtttcgt ctccagcctc 480

agcacttctc ttcttgtgct agaccctgtg tttttgcttt aaagcaagca aaatggggcc 540

ccaattgtga gaactacccg acatttccaa catactcacc tcttcccata atccctttcc 600

aactgcatgg gaggttctaa gactggaaat tatggtgcta gattagtaaa catgacttta 660

atgagtagtg tctccttaat cgttgggatt ttactacctt tttttcaaag aaacaattga 720

tgagttgtat agctggtcag atacacatca tagtgacttc accagttagg taattatcat 780

gcgaccttgt caaaccttgc tccttaatta tgttgtgcaa gtaattaaca ctgtatctca 840

gagccaggtc ggggaatact ccttattttg gacttgtaag gcgcctttgg tgctatatac 900

cccaagtcat tgtgtctctg agaagatctg tcaactgccg ctgcggggca acaacacaca 960

caaggttttc gccgcgcagc acacataagg gggtgtccaa gagagaaaga gtcccaaaca 1020

gcaaggaccg ggtgtgtaga aggacccaaa atattttaga cacgcact 1068

<210> 68
<211> 740
<212> DNA
<213> Homo sapien

<400> 68
gactgactga tatataggcc atggtttcta atcatccgag cggcgccagt tgtgaatgga 60

tcgagcggcg cccgggcagg tcgtctaaca tggcggcggc tgcggggaga gggaagcgcg 120

tttactggag ctgcattgtg agcacaaagc gaaagccaga gggggagggc agagaccagg 180

cagccgcccc tgactggcct ccttaggccc ccctctaaaa aaaaaaaaaa atcgagccac 240

agcccacgat tttatgggat tcaatattat agtcacttgt agaatcaaac tactgaggta 300

tatcttcatc tgcaagtcag acctttatgt attaattgct ttacatcgca gagacagtgt 360

aacaccttct tgtattacag gcaggggcgt gtgctatgta tgtaagagaa aaggctctgg 420

gcagagtgca ataattcaaa atgagtaaga tcagaggtgg aacggggaga aacaaattag 480

tcgtttggta aaaaccgagg taattacgtc tgtgactatc atgttaactt gaattttacc 540

ttataaagta aaatgaagcc caaaaaaaaa aaacaaaaga aaaacaaagg cggggggggc 600

accaggggcc aaacgcgggc ccccgggggg caattggttc ccggcccaca tcccacatac 660

gccgcggacg acaccccaca caacacacac agcgcacgac ccccgacaca cgacacgcac 720

ggcccacccg acaccgcaca 740

<210> 69
<211> 1028
<212> DNA

<213> Homo sapien

<400> 69
ttggggtctg tccgctcggt taccatgcac tcgagacctg tcgagcgtcc cctcttcttc 60

cgtaggagag aagtgtgttt agaatcttaa ggtagagact gcctttccgg caggcccatt 120

ttgaatgggt cttcgatttg ctaccccgcg gcccatgcga tgggctcccc tgcgtttccc 180

tctttgtttc aattgtttag gtgtcccgcc cgagcctcag gctcagctca atcgcgagat 240

gattttctgc agcgactttt tgttcctagg ggactgtgaa ggggcggggg actgccacga 300

tttagattcg ttgggggctg ggtcctgggg agactggaga ggatggctgg gactcggggc 360

acatggagag agcgtctaac atggcggcgg ctgcggggag agggaagcgc tttactggag 420

ctgcattgtg agcacaaagc gaaagcagag gggagggca gagaccaggc agccgccccg 480

actggcctcc ttaggccccc ctctaaaaaa aaaaaaaaat cgagccacag cccacgattt 540

tatgggattc aatattatag tcacttgtag aatcaaacta ctgaggtata tcttcatctg 600

caagtcagac ctttatgtat taattgcttt acatcgcaga gacagtgtaa caccttcttg 660

tattacaggc aggggcgtgt gctatgtatg taagagaaaa ggctctgggc agagtgcaat 720

aattcaaaat gagtaagatc agaggtggaa cggggagaaa caaattagtc gtttggtaaa 780

aaccgaggta attacgtctg tgactatcat gttaacttga attttacctt ataaagtaaa 840

atgaagccca aaaaaaaaaa acaaaagaaa aacaaaggcg gggggggcac caggggccaa 900

acgcgggccc ccgggggggca attggttccc ggcccacatc ccacatacgc cgcggacgac 960

accccacaca acacacacag cgcacgaccc ccgacacacg acacgcacgg cccacccgac 1020

accgcaca 1028

<210> 70
<211> 950
<212> DNA
<213> Homo sapien

<400> 70
gggggggagg aggatgaaga actcactatg ggcgaatggg cctctagatg ctgctcgagc 60

ggcgcagtgt gaatggattc gcggccgagg tacactggcg aatattctta tttctgcaag 120

tttgcttaga ggttggcaac tgaagctgtg caggacgatt cctgttctgt aagattagtc 180

tccagttgtc agtcaagcag ttgagtgcgg tatgtctagt gcccagtttc cctctccaca 240

ggtccccata ggctcttctt gttaacttta caatccgcga tcagagatga gatctctgcc 300

aaggcagcaa ctgcaaggac catgtgggtc aatgttacca gcagacactc aaagcccatt 360

cccatttact tcaagcaccg cttttatagg attatcgttg agagacgtgg gtcatggttg 420

gtattatgag gtgagtggtc gagtgacatt cacgatttct cgatctttct gaatgcatag 480

tggctgggag tggtggctca tgcctgtgat cccggcagtt tgcggagggc cgcaggtgga 540

cagattgttt gacgcacagg cagttcgaga ccagccgggc gtaaccatgg gcgggacccc 600

caatctctac caaaaaaaaa aaaaaaatac aaaagttgtc tgggtgcggg gtcgcatgcc 660

tgtagttccc aagttcccag ctactctact tgggaggctg aggcagaaag gatcacctga 720

gcccagggaa gggccaaggc ttgcagtgag cccttgattg gtggccactt gcactttgac 780

ctttgggcaa cagaattgag aattgagacc ctgtcaaaaa aaaaaaaaaa aaaaaaaaaa 840

aaaaggtgtg ggggtataat ccatgggcaa aaagagcgtg ttccccgggg tgtgaaaatt 900

gtgtttctcc gctcaaaatt tccccaaaaa atatttggag aaaattggat 950

<210> 71
<211> 2544
<212> DNA
<213> Homo sapien

<400> 71
gggggggagg aggatgaaga actcactatg ggcgaatggg cctctagatg ctgctcgagc 60

ggcgcagtgt gaatggattc gcggccgagg tacactggcg aatattctta tttctgcaag 120

tttgcttaga ggttggcaac tgaagctgtg caggacgatt cctgttctgt aagattagtc 180

tccagttgtc agtcaagcag ttgagtgcgg tatgtctagt gcccagtttc cctctccaca 240

ggtccccata ggctcttctt gttaacttta caatccgcga tcagagatga gatctctgcc 300

aaggcagcaa ctgcaaggac catgtgggtc aatgttacca gcagacactc aaagcccatt 360

cccatttact tcaagcaccg cttttatagg attatcgttg agagacgtgg gtcatggttg 420

gtattatgag gtgagtggtc gagtgacatt cacgatttct cgatctttct gaatgcatag 480

tggctgggag tggtggctca tgcctgtgat cccggcagtt tgcggagggc cgcaggtgga 540

cagattgttt gacgcacagg cagttcgaga ccagccgggc gtaaccatgg gcgggacccc 600

caatctctac caaaaaaaaa aaaaaaatac aaaagttgtc tgggtgcggg gtcgcatgcc 660

tgtagttccc aagttcccag ctactctact tgggaggctg aggcagaagg atcacctgag 720

cccaggaggt tgagtcttgc agtgaggctg agttcacacc actgtactcg agccttgatg 780

acagaatgag actgtctcaa aaaaaaaaaa atgtccttaa gtccatgtgg acccctgact 840

aggtttgtgc cctagacagc cgtcctctga gggcaattca ggtggtgaga ctccaggttt 900

aaatggcctc cacagaaatt tcactaacct gcctttgggt ttgaccctgt ataacccctt 960

tcttctggag gtccctttgg gtggcagtag atacgggatt tggtgtctga cagctctggg 1020

gacagatccc agctccaaat ggcagagtct ctacagatta caagccaaat acttagcact 1080

atgtgctgat cttcaggaag tcagtctata tttcataaca agtcacatgg ggataatgaa 1140

ggaatggcct aaaatgctct cagtaatatt cctgagtcat ccctcagggc taggcttggt 1200

gttaggcatg gcggggaagg gagcagagct gtgtgcagag gaagatgcag ttcttgcctt 1260

gtcagggtcc ctgacctgat ggcgacccat ggtggagtct tcatagtgac agacaccact 1320

gtaaaagcag atccaggttg tgcaaccctc aaagcaggtc tcctcactca ccgggataga 1380

tagactattg gccgtacctg catccaccgc ttgccatggt ttcgttgtgg gtggaggata 1440

ctttcctgtc ccctggcttt gggtttgccc acgtggcttg ctctggcctt ggaatgaagc 1500

agaaacgaaa ggctgccagt tccgagccca cgtctgaagt cgccttaggt ggttccgcgg 1560

gccccgtgcg ctcccacctt cacccagagg gccttctctg gtgcagccgc tgcttcttca 1620

gcctccgccc aaaaggaacg gagccccctg gccgatccgc aggcctacag ggagccacag 1680

agcgcagcgg ctggaccagc gttcaagccc aagcacaggc ctgcgagaac cttgttccag 1740

ccgccgttta ggatggttga ttaggacgcg ttgcagtggc ggtagctcac caatccagtg 1800

cgtgcacccg ctcctttatt aggctataga gccagtggct cccacaggga cctgatacaa 1860

cagtgcgtta aataaggagc atattgagct ctcatgtcgt aagccagtgg agaagtccag 1920

ggctagtgtg ggggctccgg cgggggctgt ggcccccatc cgcatggagc ctccccatgg 1980

ttcacaggtc tcagtcttcg gagccttcgg ccctgcgagc ccgaacagtc cacagggcgg 2040

cgccagaccc tctttcgaac gccatcctct aaagcctcgg ctccaaccgg ttccacttct 2100

tcaggctcag gattttcact cttctcgaat gggggtggcc ctcccccaat cttctgagtc 2160

gcaacagcat ctccctccct ccaggacctc agagccagag ctgggcgaga ggccctgacc 2220

tccggggtag ggtggaagcg tccctgtgaa ggtgcagtcc tgcctcccat ccccaggcgc 2280

cgggcctctc ccaccctcag cgccctgctc acctccagct gaagatgcca gggcacctct 2340

gcttcctccc tgccctctct gcagtaccgc cgagtgtgca taaaagggtt taatataggc 2400

tttgccgggc gcggggactc ccacctgtaa tcccagtacg ttgagagacc aaggcgggag 2460

gatcacttga ggccaggagt tcaaaaccag cctgggcaac aaagtgaggc ccgtctctga 2520

aaaaaaaaaa aaaaaaaaaa gggt 2544

<210> 72
<211> 328
<212> DNA
<213> Homo sapien

<400> 72
aggacgtgat gatcatatag gggaatgggt catctagatg atgctcgagc gtgcgcagtg 60

tgatggattt atatcttaat ttttaatcat gtcagttctt gaatgggtat ctccttagcc 120

tgctgatttc ttttttcttc taaagaaagt gggtggagaa attaatttag acgtttgttt 180

gcaataaaaa gaattcattt taaaaaaaaa aaaaaaaaaa agctgtggcg gtaatcagtg 240

gctcatagcg gttttccgtg gtgtgaaact ggttatccgg ctcacaattt ccaacacaga 300

catagcagag acaagttcca cgacaaaa 328

<210> 73
<211> 482
<212> DNA
<213> Homo sapien

<400> 73
tataaactgt tttaaaagaa acccatgaaa tttttaaagg atttgcatca ggttggattg 60

agaaggatag taggagtata aatggtgcag ccactatgga aaagtctgac agtgcctcaa 120

aagactaaac ataaaggtac cgtataccca acaattccac ccctaagtat atacccaaga 180

aaatgaaaac atgtccacat aaaaaattgt acacagatgg tgtttgtagc agcattattt 240

gtaataacca aaaagtagaa acaatgcaaa tgcccatcag ctgatgagtg gaaatgtaaa 300

ctgtgatgta ttcatacaat ggaatattat ttgacaataa aaataagtgg agtgccagta 360

catgctataa caaaaaaaaa aaaaaaaaaa aaactttggg gttatctcat ggctcatacc 420

tttttccctg ttttgacatt ttttttccgc ttccaatttc cacacaaatc ttgacacaaa 480

tt 482

<210> 74
<211> 1187
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (298)..(298)
<223> a, c, g or t

<400> 74
taaatcttga tataccattt gctgctacta agccatgtag taggagcttt gggactgagc 60

ttgagtgtaa gttagaaggg ccttgaagag actgttaacc ggagcctaat gtcacttcag 120

gaagctattg gtgaaggttt aaaccaggtg agagatatta ttggaagctg gaagaaaggt 180

gactcttgtg acatagtagc agaaatttta gccatgctgg aaatttattt tccctggaaa 240

ccattggaaa ataagtatag ctcaactgga tgatctcact aaagagattt ctaggcantg 300

tcaaaggtgc tatctggatt cttctagccc ctatagcaaa gacaaaggag aaaggcaagc 360

aagatacaaa atttgtttcg atataaagga gccacaactt tttgggtttg aaaatacttt 420

tgtgtcattc ctaacctctc cagacagtga atgatgccta atattaagca atctgttcca 480

gacagagcca atccagggaa ctctcagcaa aatgatgaag atgaaaaggc atggctataa 540

aaaggctttg ttaagaacag gaaggttaaa tacactgtgt taccaacaaa caatagggcc 600

cctaaaaatc ttaatgtctc acggcagttt cacatgggaa cccaagatag aggtgggcca 660

tctgaaagag atttgtgggt gtggtttgtg tctgatggag tgaattataa actgttttaa 720

aagaaaccca tgaaattttt aaaggatttg catcaggttg gattgagaag gatagtagga 780

gtataaatgg tgcagccact atggaaaagt ctgacagtgc ctcaaaagac taaacataaa 840

ggtaccgtat acccaacaat tccaccccta agtatatacc caagaaaatg aaaacatgtc 900

cacataaaaa attgtacaca gatggtgttt gtagcagcat tatttgtaat aaccaaaaag 960

tagaaacaat gcaaatgccc atcagctgat gagtggaaat gtaaactgtg atgtattcat 1020

acaatggaat attatttgac aataaaaata agtggagtgc cagtacatgc tataacaaaa 1080

aaaaaaaaaa aaaaaaaact ttggggttat ctcatggctc atacctttt ccctgttttg 1140

acatttttt tccgcttcca atttccacac aaatcttgac acaaatt 1187

<210> 75
<211> 759
<212> DNA
<213> Homo sapien

<400> 75
catttcctgg gcacgcatgg tggcaaaggg agaagtgacc agaatcagat ttggtggcca 60

aagggcacag ccagcatctg tgccatgcct ctgatctccc cccaccatat gaagggaagg 120

ggccagctgt atccctctgg tggcttggtg gctctccttg gaatggagag gagtctgtgg 180

ctttccatct tcctgcaaag tggctggagt tggtgtccga tagctgcaaa ctccaggcag 240

catgagcgtg ctgctgaagc taggagcatg caatttccca cagcctggag cagggatttt 300

cagactggga cctaaagtcc taggcttcat caaagtctgt gtcccatccc agttccagct 360

gcactctcag gggtttgtgt gccttactgc ttttattttc cacttgttta agtctgaggc 420

tgttagcaag ctgaattata tagcagttta gggacatgcc ctggaattag gagctggatg 480

agaatcccac ctcctctcct cactcacact atgatcttgc caattacatc acttttgaaa 540

gccctgtccc ttcttctaca aaatgggttc actagtcagg gagctgaaag gagctgattc 600

taataaagca cctagaaaca cggtcttagt gttggcccac tctgcaggtc agaggggggtc 660

ctaggtgctc aggaaggctt tcaaggtaag tgtggagcac cggtgtctgc agtgagcggg 720

gagcttttgt cctgtgattg tggcagccaa accggaagc 759

<210> 76
<211> 943
<212> DNA
<213> Homo sapien

<400> 76
actagttctc ctaatattct gggcttaaac tacactggga ggggcttgca tttcctgggc 60

acgcatggtg gcaaagggag aagtgaccag aatcagattt ggtggccaaa gggcacagca 120

gcatctgtgc catgcctctg atctcccccc accatatgaa gggaaggggc cagctgtatc 180

cctctggtgg cttggtggct ctccttggaa tggagaggag tctgtggctt tccatcttcc 240

tgcaaagtgg ctggagttgg tgtccgatag ctgcaaactc caggcagcat gagcgtgctg 300

ctgaagctag gagcatgcaa tttcccacag cctggagcag ggattttcag actgggacct 360

aaagtcctag gcttcatcaa agtctgtgtc ccatcccagt tccagctgca ctctcagggg 420

tttttgtgtg ccttactgct tttatttttcc acttgtttaa gtctgaggct gttagcaagc 480

tgaattatat agcagtttag ggacatgccc tggaattagg agctggatgg gaatcccacc 540

tcctctcctc actcacccta tgatcttgcc aattacatca cttttgaaag ccctgtccct 600

tcttctacaa aatgggttca ctagtcaggg agctgaaagg agctgattct aataaagcac 660

ctagaaacac ggtcttagtg ttggcccact ctgcaggtca gaggggtcc taggtgctca 720

ggaaggcttt caaggtaagt gtggagcaca ggtgtctgca gtgagcgggg agcttttgtc 780

ctgtgattgt ggcagcaaac ccggaaagcc ttgccctgca ttccctccag gggcgggccg 840

ctaggatcaa ttgttccttc ccctggatcc acttttaaag ccctacccac actgtcagag 900

gggcagagcc tgggctagca gggaaggagg ccccttcaga gtg 943

<210> 77
<211> 244
<212> PRT
<213> Homo sapien

<400> 77

Met Gly Ile Phe Leu Lys Ala Cys Leu Cys Ala Asn Pro Ser Pro Lys
1 5 10 15

Gly Gly Tyr Leu Arg Trp Val Glu Pro Ser Ser His Gly Val Glu Arg
20 25 30

Arg Pro Trp Thr His Thr Arg Glu Glu Pro Pro Lys Pro Ser Ser Ile
35 40 45

Met Trp Gln Arg Ile Gln Arg Trp Ala Tyr Leu Ser Gly Ser Ile Ala
50 55 60

Cys Leu Arg Gly Ala Asp Asn Cys Arg Thr Ser Ala Ser Gln Phe Ser
65 70 75 80

His Gln Thr Lys Ile Cys Asp Thr Asn Thr Gln Pro Gly Ala Ser Pro
85 90 95

Thr Asp Ala Arg Lys Ala Arg Arg Pro Lys Ser Pro Arg Pro Arg Pro
100 105 110

Ala Pro Ala Pro Arg Gln Ala Pro Gly Gln His Pro His Ser Thr Thr
115 120 125

Gly Ala Ala Ile Thr Thr Gly Pro Thr Ala Gln Arg Arg Glu Ala Thr
130 135 140

Asp Ala Glu Asn Lys Arg Lys Arg Thr Arg Gln Arg Thr Arg Arg Thr
145 150 155 160

Thr Gly Gln Thr Tyr Glu Gln Thr Lys Lys Arg Lys Lys Lys Thr Lys
165 170 175

Arg Asp Ala Gly Asp Asp Gly Arg Ala Arg Lys Thr Lys Arg Gln Ala
180 185 190

Lys Arg Asn Lys Gly Lys Ala Lys Arg Gly Arg Ser Lys Gln Glu Arg
195 200 205

Lys Lys Lys Gln Arg Ala Thr Lys Gln Glu His Lys Glu Lys Asp Arg
210 215 220

Lys Ala Pro Arg Gly Gln Thr Lys Glu Gly Glu Gln Asn Thr Lys Asp
225 230 235 240

Glu Arg Glu Glu

<210> 78

<211> 104
<212> PRT
<213> Homo sapien

<400> 78

Met Gly Tyr Pro Ala Ser Lys Phe Ser Pro Thr Thr Leu Glu Arg Gln
1 5 10 15

Gln Pro Arg Lys Gln Thr Gln Arg Ala Ser Ser Gln Arg Gln Gly Asn
20 25 30

Asn Thr Lys Ala His Arg Gln Lys Glu Gly Ala Ala Glu Gly Thr Gln
35 40 45

Ala Thr Pro Glu Arg Gly Gln Thr Gln Ala His Gln Lys Arg Arg Glu
50 55 60

Arg Thr Thr Gly Arg Glu Glu Gln Lys Glu Lys Arg Gln Gln Arg Glu
65 70 75 80

Glu Gln Gly Thr Arg Gly Asp Arg Glu Arg Lys Arg Gln Pro Ala Asn
85 90 95

Ala Gln Asp Gly Gln Gln Ala Arg
100

<210> 79
<211> 54
<212> PRT
<213> Homo sapien

<400> 79

Met Arg Val Tyr Ala Cys Ser Ser Val Tyr Ser Gln His Arg Gly Ser
1 5 10 15

Phe Asp Val His Val Tyr Leu Tyr Tyr His Gly Tyr Val Gly Val Thr
20 25 30

Thr Leu Thr Met Ile Phe Ser Ser Val Leu Phe Gly Tyr Gly Phe Gly
35 40 45

Val Ile Trp Leu Leu Leu
50

<210> 80
<211> 76

<212> PRT
<213> Homo sapien

<400> 80

Met Ser Glu Thr Pro Gly Gln Val Pro Gly Asp Arg Cys Ser Pro Ser
1 5 10 15

Pro Val Lys Val Asp Ala Leu Glu Met Glu Pro Met Ser Pro Trp Glu
20 25 30

Arg Leu Asp Cys Val Lys Leu Arg Ser Arg Asp Val Gly Arg Ser Ala
35 40 45

His Ala Ala Tyr Ile Val Pro Cys Thr His Ile Cys Ala Arg Leu Ala
50 55 60

Ser Asp Gly Asp Phe His Glu Leu Ile Glu Gly Thr
65 70 75

<210> 81
<211> 125
<212> PRT
<213> Homo sapien

<400> 81

Met Arg Tyr Ala Ala Ser Asn Ser Pro Gly Ser Tyr Arg Pro Lys Lys
1 5 10 15

Val Asp Arg Ala Ala Ala Glu Glu Gln Ala Phe Asp Gly Met Pro Asn
20 25 30

Thr Glu Gly Arg Arg Pro Ala Gly Asp Pro Gly Arg Arg Ser Pro Thr
35 40 45

Ala Ala Gly Arg Gly Glu Gly Gln Ile Arg Gly Arg Glu Pro His Ala
50 55 60

Arg Pro Cys Met Arg Arg Arg Arg Pro Arg Glu Arg Arg Pro Glu Ala
65 70 75 80

Ala Arg Gln Glu Arg Pro Arg Lys Pro His Ala Pro Arg Pro Cys Ala
85 90 95

Thr Ala Gly His Ala Arg Glu Ala Gly Arg Ser Thr Ala Gly Asp Arg
100 105 110

Pro Arg Thr Arg Pro Ala Gln Gly Ser Arg Ala Thr Glu
115 120 125

<210> 82
<211> 235
<212> PRT
<213> Homo sapien

<400> 82

Ala Trp Ala Leu Leu Phe Leu Thr Leu Leu Thr Gln Gly Thr Gly Ser
1 5 10 15

Trp Ala Gln Ser Ala Leu Thr Gln Ser Ala Ser Val Ser Gly Ser Pro
20 25 30

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser His Val Gly
35 40 45

Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro
50 55 60

Lys Leu Ile Ile Tyr Glu Val Ser Asn Arg Pro Ser Gly Val Ser Asn
65 70 75 80

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser
85 90 95

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Thr
100 105 110

Arg Ser Thr Ser His Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
115 120 125

Gly Gln Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser
130 135 140

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
145 150 155 160

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
165 170 175

Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
180 185 190

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
195 200 205

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
210 215 220

Asp Glu Asp Ser Gly Pro Leu Gln Lys Cys Ser
225 230 235

<210> 83
<211> 166
<212> PRT
<213> Homo sapien

<400> 83

Pro Pro Pro Ser Pro Pro Ser Pro Pro Ser Pro Pro Pro Ser Pro Pro
1 5 10 15

Ser Ser Pro Pro Pro Ser Ser Pro Pro Pro Ser Pro Ser Ser Ser Ser
20 25 30

Ser Ser Ser Ser Ser Cys Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
35 40 45

Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Phe Phe Phe Leu Phe
50 55 60

Ser Phe Leu Phe Phe Leu Arg Trp Ser Leu Ala Leu Leu Pro Arg Leu
65 70 75 80

Glu Cys Ser Ser Thr Ile Ser Ala His Cys Asn Leu Cys Leu Leu Gly
85 90 95

Ser Ser Asp Ser Ser Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly
100 105 110

Ile His His Tyr Ala Gln Leu Ile Phe Val Phe Leu Gly Glu Thr Gly
115 120 125

Phe His His Ile Gly Gln Ala Gly Leu Ala Leu Arg Thr Ile Val Ile
130 135 140

Gln Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Tyr His Gly Val Ser
145 150 155 160

Leu Leu Ser Arg His Gly
165

<210> 84
<211> 63
<212> PRT
<213> Homo sapien

<400> 84

Met Glu Arg Tyr Ile Pro Ile Arg Asn Pro Thr Arg Asp Asn Asn Asn
1 5 10 15

Ser Arg Glu Arg Arg Arg Glu Asn Thr Asp Glu Arg Glu Ser Arg Asp
20 25 30

Arg Arg Arg Glu Arg Asn Glu Arg Lys Arg Arg Glu Asn Glu Thr Arg
35 40 45

Glu Gln Arg Glu Gly Glu Thr Glu Ala Lys Lys Asp Lys Lys Lys
50 55 60

<210> 85
<211> 98
<212> PRT
<213> Homo sapien

<400> 85

Met Gly Phe Trp Pro Asp Thr Phe Ser Arg Gly His Ile Met Ala Ser
1 5 10 15

Val Phe Pro Gln Arg Val Cys Phe Arg Phe Cys Leu Phe Glu Met Glu
20 25 30

Ser His Phe Val Thr Gln Leu Glu Leu Gln Cys Arg Tyr Leu Gly Ser
35 40 45

Leu Gln Pro Pro Pro Pro Pro Pro Gly Phe Met Gln Phe Ser Cys Leu
50 55 60

Arg His Ser Ser Ser Trp Asp Tyr Arg His Ala Pro Ser Cys Leu Ala
65 70 75 80

Asn Phe Cys Ile Phe Ser Arg Asp Trp Val Ser Pro Tyr Trp Pro Gly
85 90 95

Trp Ser

<210> 86
<211> 53
<212> PRT
<213> Homo sapien

<400> 86

Met Arg His Leu Ser Ile Cys Tyr Asp Thr His Ile His Thr His Met
1 5 10 15

Glu Ile Asp Val Met Ile Leu Arg Asp Arg Thr Asp Asn Thr Arg Tyr
20 25 30

Ala Ser Thr Leu Val Arg Asp Leu Leu Leu Ser Thr Leu Ala Thr Asp
35 40 45

Ser Ser Tyr Ala Tyr
50

<210> 87
<211> 73
<212> PRT
<213> Homo sapien

<400> 87

Leu Lys Asp Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys
1 5 10 15

Ile Gln Lys Leu Ala Gly His Ser Gly Val Cys Leu Ala Ser Gln Leu
20 25 30

Leu Gly Arg Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly
35 40 45

Cys Ser Glu Pro Arg Ser Cys Tyr Cys Thr Pro Ala Trp Ala Lys Glu
50 55 60

Gln Asp Ser Ile Ser Lys Lys Lys Lys
65 70

<210> 88
<211> 90
<212> PRT
<213> Homo sapien

<400> 88

Met Lys Ile Gly Met Thr Ile Ile Asn Ile Asn Gly Gln Asn Ser Gly
1 5 10 15

Asn Asp Ile Gly Arg Leu Lys Lys Gln Gly Ile Asn Pro Ser Gly Asp
20 25 30

Pro Tyr Ser Glu Gln Glu Thr Lys Gly Ala Lys Asn Lys Thr Gln Lys
35 40 45

Leu Gly Glu Gly Arg Tyr Ser Gly Glu Lys Arg Ala Arg Lys Asn Lys
50 55 60

Glu Glu Glu Gln Gln Lys Gln Ala Gly Glu Pro Ser Thr Gly Asn Ala
65 70 75 80

Ala Gly Gly Thr Arg Gly Ala Gln Glu Gly
85 90

<210> 89
<211> 96
<212> PRT
<213> Homo sapien

<400> 89

Met Leu Phe Val Leu Gly Glu Gly Cys Asp Arg Leu Ala Glu Val Ser
1 5 10 15

Leu His Phe Leu Ala Leu Ile Leu Val Leu Ser Thr Ser Gly Tyr Thr
20 25 30

Arg Glu Arg Met Ala Cys Ser Cys Leu Cys Val Leu Ala Leu Leu Phe
35 40 45

Gly Ser Ser Ile Met Lys Thr Trp Asp Lys Lys Ile Glu Lys Asn Asn
50 55 60

Phe Thr Ser Leu Asn Ile Ser His Leu Asn Tyr Tyr Asp Leu Arg His
65 70 75 80

His Phe Tyr Arg Val Thr Cys Cys Gly Ser Gln Cys Ala Leu Pro Ser
85 90 95

<210> 90
<211> 91

<212> PRT
<213> Homo sapien

<400> 90

Met Gly Trp Tyr Val Val Phe Ser Phe Arg Phe Met Leu Phe Val Leu
1 5 10 15

Gly Thr Leu Val Ala Arg His Leu Leu His Ser Asp Leu Leu Thr Phe
20 25 30

Gln Leu Ser Glu Ser Gln Leu Cys Ser His Asp Leu Pro Pro Ser Leu
35 40 45

Arg Asp Leu Arg Ala Cys Pro Cys Met Val Ser Leu Arg Gln Pro Leu
50 55 60

Val Met Leu Cys Ala Val Pro Ala Trp Leu Leu Ala Ser Cys Thr Val
65 70 75 80

His Cys Met Ile Leu His Arg Val Lys His Ala
85 90

<210> 91
<211> 74
<212> PRT
<213> Homo sapien

<400> 91

Met Glu Lys Phe Glu Arg Met Asn Val Lys Ser Phe Phe Phe Phe Phe
1 5 10 15

Phe Glu Thr Gly Ser Leu Ser Val Thr Lys Gln Glu Cys Ser Gly Val
20 25 30

Ile Ile Ala His Cys Ser Leu Asp Leu Pro Gly Ser Ser Asp Pro Pro
35 40 45

Thr Leu Ala Pro Pro Val Ala Gly Thr Thr Gly Val His His His Ser
50 55 60

Trp Leu Ile Ile Ile Leu Phe Leu Tyr Phe
65 70

<210> 92
<211> 92
<212> PRT

<213> Homo sapien

<400> 92

```
Met Glu His Glu Leu His Pro Thr Ser Gln Ser Cys Gly Ala Arg Ala
1               5                   10                  15

Thr Ser Ser Ser Val Cys Val Tyr Met Val Glu Leu Ser Leu Cys Asp
            20                  25                  30

Val Ser Leu Ser Arg Ser Pro Cys Phe Gly His Asp Asn Pro Cys Lys
        35                  40                  45

Val Thr Arg Gly Ile Ala Asp Gly Phe Gly Cys Gly Leu Arg Val His
    50                  55                  60

Arg His Val Leu Ala Val Leu Ile Leu Ile Gln Thr Gly Cys Thr Pro
65                  70                  75                  80

Gln Ile Arg Arg Ser Lys Ser Met Ala Ser Val Ala
                85                  90
```

<210> 93
<211> 62
<212> PRT
<213> Homo sapien

<400> 93

```
Met Gly Pro Leu Thr Ala Ala Arg Arg Gly Asp Ser Val Met Asp Gly
1               5                   10                  15

Trp Cys Asp His Gly Ser Cys Asn Leu Glu Phe Leu Gly Thr Ser Asp
            20                  25                  30

Pro Pro Ala Leu Ala Ser Gln Ser Arg Val Gly Thr Thr Gly Met Arg
        35                  40                  45

Gln His Thr Trp Leu Ile Leu Leu Thr Phe Thr Phe Ser Arg
    50                  55                  60
```

<210> 94
<211> 148
<212> PRT
<213> Homo sapien

<400> 94

```
Met Leu Gln Lys Gln Asn Thr Arg Ser Gly Gly Gly Glu His Gln Arg
```

1 5 10 15

Glu Gln Pro Met Asp Lys Thr Ala Ser Leu Gly Gly Ser Cys Thr Thr
20 25 30

Pro Arg Ala Pro Pro Thr Phe Thr Val Arg Gly Glu Leu Thr Ala Gln
35 40 45

Lys Val His His Lys Ser Gln Ser Ser Ser His Arg Pro Arg Arg Ala
50 55 60

Ile Pro Gly Gly Gly Thr Lys Arg Lys Lys Arg Asp Ala Gln Ala Ala
65 70 75 80

Asp Ile Ser His Ala Arg Thr Glu His His Gln Asp Thr Arg Gln Asp
85 90 95

Asp Ala Glu Ala Pro His Lys Thr Pro Asn Thr Lys His Pro Arg Thr
100 105 110

Pro Cys Arg His Thr Ala Pro Pro Leu His Pro Pro Glu Gln Met Asn
115 120 125

Arg Gly Gln Ser Asn Thr Arg Arg Asn Glu Asn Asn Leu His Ser Glu
130 135 140

His Asn Ala Ala
145

<210> 95
<211> 51
<212> PRT
<213> Homo sapien

<400> 95

Met Val Gln Val Leu His Trp Ser Leu Ser Ser Ala Ile Leu Ser Val
1 5 10 15

Tyr Val Gln Tyr Leu Pro Gly Asp Pro Ser His Cys Arg Gln Leu Glu
20 25 30

His Ala Ser Met Ile Asn Gln Trp Ala Leu Ile Asn Ser Thr Phe Leu
35 40 45

Cys Arg Leu

50

<210> 96
<211> 84
<212> PRT
<213> Homo sapien

<400> 96

Met Arg Gln Ser Ala Thr Leu Arg Ser Ser Asp His Trp Glu Glu Arg
1 5 10 15

Glu Ser Leu Gln Leu Leu Gly Phe Arg Leu Gln Lys Phe Leu Ala Ala
20 25 30

Phe Ala His Trp Arg Gly Gly Glu Asp Lys Ser Ile Arg Asn Pro Met
35 40 45

Phe Pro Ser Ser Pro Thr Glu Arg Thr Lys Glu Val Phe Thr Arg Cys
50 55 60

Gly Thr Phe Leu Gln Leu Leu Asp Ala Asp Lys Pro Gln Ser Arg Leu
65 70 75 80

Phe Trp Leu Gln

<210> 97
<211> 72
<212> PRT
<213> Homo sapien

<400> 97

Met Lys Gln Trp Lys Ile Ser Ile Ala Gln Leu Asp Asp Leu Thr Lys
1 5 10 15

Glu Ile Ser Arg Gln Cys Gln Arg Cys Tyr Leu Asp Ser Ser Ser Pro
20 25 30

Tyr Ser Lys Arg Gln Lys Glu Lys Gly Lys Gln Asp Lys Lys Leu Phe
35 40 45

Asp Ile Lys Glu Pro Gln Leu Phe Gly Phe Glu Lys Tyr Phe Phe Ser
50 55 60

Phe Leu Thr Ser Pro Asp Ser Glu
65 70

<210> 98
<211> 40
<212> PRT
<213> Homo sapien

<400> 98

Met Gly Thr Arg Tyr Tyr Ile Leu Glu Phe Val Leu Arg Arg His Lys
1 5 10 15

Leu Asn Ser Arg Ser Leu Cys Pro Lys Phe His Arg Leu Lys Lys Arg
20 25 30

Ser Ser Asn Tyr Arg Ser Gly Tyr
35 40

<210> 99
<211> 87
<212> PRT
<213> Homo sapien

<400> 99

Met Phe Ser Thr Ser Ser Gln Val Cys Ala Leu Cys Pro Phe Ser Gly
1 5 10 15

Ser Leu Glu Leu Pro Pro Ser Leu His Pro Asp Ser Phe Ala Ile Met
20 25 30

Cys Leu Ile Ser Cys Glu Phe Thr Gly Glu Ala Ile Ser Gln Ile Asn
35 40 45

Gly Cys Lys Cys Ser Lys Lys Lys Lys Thr Lys Lys Lys Ala Gly Gly
50 55 60

Asn Arg Gly Gln Ser Leu Ser Pro Gly Gly His Cys Phe Pro Pro Gln
65 70 75 80

Phe Asn Pro His Lys Pro Pro
85

<210> 100
<211> 31
<212> PRT
<213> Homo sapien

<400> 100

```
Met Ser Asn Ser His Thr Glu Gln Ala Thr Phe Leu Ser Lys Val Cys
1               5                   10                  15

Gly Ala Gly Arg Ala Val Gly Ala Leu Asn Ala Gly Leu Asn Arg
            20                  25                  30
```

<210> 101
<211> 69
<212> PRT
<213> Homo sapien

<400> 101

```
Met Leu Arg Asn Cys Gly Gly Ile Gly Ala Gly Asn Lys Phe Pro Pro
1               5                   10                  15

Gly Thr Ala Leu Ala Pro Asp Thr Pro Ser Leu Phe Phe Phe Phe Phe
            20                  25                  30

Phe Phe Leu Glu Thr Met Thr Thr Ala Ala Ala Ile Leu Leu Pro Ile
        35                  40                  45

Ser His Glu Pro Arg Leu Pro Tyr Thr Met Thr Phe His Pro His Asn
    50                  55                  60

Arg Leu Thr Gln Pro
65
```

<210> 102
<211> 91
<212> PRT
<213> Homo sapien

<400> 102

```
Met Phe Cys Val Phe Leu Lys Ser Glu Cys Val Phe Tyr His Cys Ser
1               5                   10                  15

Val Asn Ala Asn Trp Val Lys Phe Val Asp Ser Gln Ile Tyr Ile Leu
            20                  25                  30

Thr His Leu Phe Val Pro Phe Phe Leu Ser Val Ile Glu Gln Glu Val
        35                  40                  45

Leu Lys Ser Pro Ile Thr Ser Ile Ser Leu Thr Leu Pro Phe Phe Ser
    50                  55                  60

Leu Trp Ile Leu Asn Phe Ser Ile Tyr Phe Val Tyr Phe Glu Gly His
```

65 70 75 80

Ile His Leu Leu Ser Ser Cys Ile Leu Met Asn
85 90

<210> 103
<211> 38
<212> PRT
<213> Homo sapien

<400> 103

Gln Pro Gly Gln His Gly Glu Thr Pro Ser Pro Pro Lys Asp Ala Lys
1 5 10 15

Thr Ser Gln Ala Trp Arg Arg Ala Pro Ala Val Pro Gly Thr Arg Gln
20 25 30

Ala Glu Ala Gly Glu Ser
35

<210> 104
<211> 107
<212> PRT
<213> Homo sapien

<400> 104

Met Asn Tyr Ser Leu Thr Ser Arg Thr Val Glu Asp Arg Gly Gln Lys
1 5 10 15

Gln Ala Ser Lys Arg Ser Gln Tyr Gly Gly Val His Ala Trp His Thr
20 25 30

Trp Leu Ser Glu Ser Asp Val Cys Leu Cys Val Cys Asp Glu Asp Ser
35 40 45

Ser Glu Trp Asn Gly Gln Arg Val Thr Gly Lys Phe Cys Arg Glu Glu
50 55 60

Asn Glu Arg Leu Leu Ile Leu Lys Gln Ser Phe Ala Leu Leu Trp Ser
65 70 75 80

Tyr Thr Thr Val Asn Leu Pro Ile Leu Ser Ser Gln Ile Pro Thr Arg
85 90 95

Lys Pro Val Ile Asn Leu Trp Ile Asn Phe His
100 105

<210> 105
<211> 822
<212> PRT
<213> Homo sapien

<400> 105

```
Met Asn Thr Ala Asp Gln Ala Arg Val Gly Pro Ala Asp Asp Gly Pro
1               5                  10                  15

Ala Pro Ser Gly Glu Glu Glu Gly Glu Gly Gly Gly Glu Ala Gly Gly
            20                  25                  30

Lys Glu Pro Ala Ala Asp Ala Ala Pro Gly Pro Ser Ala Ala Phe Arg
        35                  40                  45

Leu Met Val Thr Arg Arg Glu Pro Ala Val Lys Leu Gln Tyr Ala Val
    50                  55                  60

Ser Gly Leu Glu Pro Leu Ala Trp Ser Glu Asp His Arg Val Ser Val
65                  70                  75                  80

Ser Thr Ala Arg Ser Ile Ala Val Leu Glu Leu Ile Cys Asp Val His
                85                  90                  95

Asn Pro Gly Gln Asp Leu Val Ile His Arg Thr Ser Val Pro Ala Pro
            100                 105                 110

Leu Asn Ser Cys Leu Leu Lys Val Gly Ser Lys Thr Glu Val Ala Glu
        115                 120                 125

Cys Lys Glu Lys Phe Ala Ala Ser Lys Asp Pro Thr Val Ser Gln Thr
    130                 135                 140

Phe Met Leu Asp Arg Val Phe Asn Pro Glu Gly Lys Ala Leu Pro Pro
145                 150                 155                 160

Met Arg Gly Phe Lys Tyr Thr Ser Trp Ser Pro Met Gly Cys Asp Ala
                165                 170                 175

Asn Gly Arg Cys Leu Leu Ala Ala Leu Thr Met Asp Asn Arg Leu Thr
            180                 185                 190

Ile Gln Ala Asn Leu Asn Arg Leu Gln Trp Val Gln Leu Val Asp Leu
        195                 200                 205
```

Thr Glu Ile Tyr Gly Glu Arg Leu Tyr Glu Thr Ser Tyr Arg Leu Ser
210 215 220

Lys Asn Glu Ala Pro Glu Gly Asn Leu Gly Asp Phe Ala Glu Phe Gln
225 230 235 240

Arg Arg His Ser Met Gln Thr Pro Val Arg Met Glu Trp Ser Gly Ile
245 250 255

Cys Thr Thr Gln Gln Val Lys His Asn Asn Glu Cys Arg Asp Val Gly
260 265 270

Ser Val Leu Leu Ala Val Leu Phe Glu Asn Gly Asn Ile Ala Val Trp
275 280 285

Gln Phe Gln Leu Pro Phe Val Gly Lys Glu Ser Ile Ser Ser Cys Asn
290 295 300

Thr Ile Glu Ser Gly Ile Thr Ser Pro Ser Val Leu Phe Trp Trp Glu
305 310 315 320

Tyr Glu His Asn Asn Arg Lys Met Ser Gly Leu Ile Val Gly Ser Ala
325 330 335

Phe Gly Pro Ile Lys Ile Leu Pro Val Asn Leu Lys Ala Val Lys Gly
340 345 350

Tyr Phe Thr Leu Arg Gln Pro Val Ile Leu Trp Lys Glu Met Asp Gln
355 360 365

Leu Pro Val His Ser Ile Lys Cys Val Pro Leu Tyr His Pro Tyr Gln
370 375 380

Lys Cys Ser Cys Ser Leu Val Val Ala Ala Arg Gly Ser Tyr Val Phe
385 390 395 400

Trp Cys Leu Leu Leu Ile Ser Lys Ala Gly Leu Asn Val His Asn Ser
405 410 415

His Val Thr Gly Leu His Ser Leu Pro Ile Val Ser Met Thr Ala Asp
420 425 430

Lys Gln Asn Gly Thr Val Tyr Thr Cys Ser Ser Asp Gly Lys Val Arg

```
        435                 440                 445

Gln Leu Ile Pro Ile Phe Thr Asp Val Ala Leu Lys Phe Glu His Gln
    450                 455                 460

Leu Ile Lys Leu Ser Asp Val Phe Gly Ser Val Arg Thr His Gly Ile
465                 470                 475                 480

Ala Val Ser Pro Cys Gly Ala Tyr Leu Ala Ile Ile Thr Thr Glu Gly
                485                 490                 495

Met Ile Asn Gly Leu His Pro Val Asn Lys Asn Tyr Gln Val Gln Phe
            500                 505                 510

Val Thr Leu Lys Thr Phe Glu Glu Ala Ala Ala Gln Leu Leu Glu Ser
        515                 520                 525

Ser Val Gln Asn Leu Phe Lys Gln Val Asp Leu Ile Asp Leu Val Arg
    530                 535                 540

Trp Lys Ile Leu Lys Asp Lys His Ile Pro Gln Phe Leu Gln Glu Ala
545                 550                 555                 560

Leu Glu Lys Lys Ile Glu Ser Ser Gly Val Thr Tyr Phe Trp Arg Phe
                565                 570                 575

Lys Leu Phe Leu Leu Arg Ile Leu Tyr Gln Ser Met Gln Lys Thr Pro
            580                 585                 590

Ser Glu Ala Leu Trp Lys Pro Thr His Glu Asp Ser Lys Ile Leu Leu
        595                 600                 605

Val Asp Ser Pro Gly Met Gly Asn Ala Asp Asp Glu Gln Gln Glu Glu
    610                 615                 620

Gly Thr Ser Ser Lys Gln Val Val Lys Gln Gly Leu Gln Glu Arg Ser
625                 630                 635                 640

Lys Glu Gly Asp Val Glu Glu Pro Thr Asp Asp Ser Leu Pro Thr Thr
                645                 650                 655

Gly Asp Ala Gly Gly Arg Glu Pro Met Glu Glu Lys Leu Leu Glu Ile
            660                 665                 670
```

Gln Gly Lys Ile Glu Ala Val Glu Met His Leu Thr Arg Glu His Met
675 680 685

Lys Arg Val Leu Gly Glu Val Tyr Leu His Thr Trp Ile Thr Glu Asn
690 695 700

Thr Ser Ile Pro Thr Arg Gly Leu Cys Asn Phe Leu Met Ser Asp Glu
705 710 715 720

Glu Tyr Asp Asp Arg Thr Ala Arg Val Leu Ile Gly His Ile Ser Lys
725 730 735

Lys Met Asn Lys Gln Thr Phe Pro Glu His Cys Ser Leu Cys Lys Glu
740 745 750

Ile Leu Pro Phe Thr Asp Arg Lys Gln Ala Val Cys Ser Asn Gly His
755 760 765

Ile Trp Leu Arg Cys Phe Leu Thr Tyr Gln Ser Cys Gln Ser Leu Ile
770 775 780

Tyr Arg Arg Cys Leu Leu His Asp Ser Ile Ala Arg His Pro Ala Pro
785 790 795 800

Glu Asp Pro Asp Trp Ile Lys Arg Leu Leu Gln Ser Pro Cys Pro Phe
805 810 815

Cys Asp Ser Pro Val Phe
820

<210> 106
<211> 52
<212> PRT
<213> Homo sapien

<400> 106

Met Asn Tyr Val Leu Asn Glu Trp Leu Ser Leu Pro Cys Lys Pro His
1 5 10 15

Ala Thr Gly Ser Leu Phe Arg Trp Leu Thr Thr Ala Pro Gln Ala Cys
20 25 30

Trp Lys Asp Arg Ser Pro Lys Pro Ser Leu Leu Ser Thr Gln Ala Trp
35 40 45

Val Ser Trp Ser
50

<210> 107
<211> 82
<212> PRT
<213> Homo sapien

<400> 107

Met Leu Asn Thr Cys Arg Val Ile Leu Val Val Phe Ser Gln Pro Phe
1 5 10 15

Ile Lys Phe Leu Val Thr Ser Val Met Met Thr Phe His Thr Pro Ile
20 25 30

Thr Ser Lys Ala Phe Leu His Leu Ala Asp Pro Ser Tyr Gly Pro Ala
35 40 45

Val Ser His Ala Val Thr Thr Ser Gly Thr Asp Leu Thr Ala Leu Arg
50 55 60

Ala Ser Ser Ser Leu Ala Gly Arg Thr Ser Ala Ala Ser Ser Ile Thr
65 70 75 80

Lys Gly

<210> 108
<211> 63
<212> PRT
<213> Homo sapien

<400> 108

Met Arg Val Ser Gly Thr Cys Trp Asp Lys Cys Glu Ala Ser Val Trp
1 5 10 15

Ala Val Arg Tyr Gly Glu Cys Leu Ser Leu Arg Ser Lys Glu Leu Trp
20 25 30

Ala Gly Pro Trp Arg Trp Arg Arg Val Pro Val Val Ser Ala Lys Ser
35 40 45

Gly Gly Arg Lys Trp Glu Asp His Leu Ser Pro Gly Ile Arg Gly
50 55 60

<210> 109

<211> 51
<212> PRT
<213> Homo sapien

<400> 109

Val Cys Gly Gly Ser Arg Gln Arg Gln Gly Leu Ala Pro Leu Ser Arg
1 5 10 15

Leu Glu Cys Phe Gly Val Met Thr Ala His Val Asn Leu Glu Phe Leu
20 25 30

Gly Ser Gly Asp Pro Pro Thr Ser Ala Ser Ala Leu Ala Glu Thr Thr
35 40 45

Gly Thr Arg
50

<210> 110
<211> 141
<212> PRT
<213> Homo sapien

<400> 110

Met Ile Leu Leu Ser Arg His Asn Ser Gln Gly Asn Thr Thr Thr His
1 5 10 15

His Asn Lys Asn Thr Lys Thr Arg Gly Gly Asp Thr Pro Gly Thr Thr
20 25 30

Gly Trp Ile Pro Gly Arg Arg Thr Arg Ser Pro Arg Arg Gln Asn Phe
35 40 45

Pro Thr Lys Thr Ile Gly Asp Lys Thr Ala Lys Glu Ala Arg Glu Thr
50 55 60

Arg Gly Asn Lys Arg Lys Lys Asp Thr Glu Arg Arg Lys Gly Ala Arg
65 70 75 80

Ser Thr Arg Thr Arg Asp Glu Glu Gly Gly Gly Arg Glu Glu Glu Arg
85 90 95

Gly Arg Gly Gly Arg Glu Arg Arg Gln Glu Gly Glu Arg Gly Ile Glu
100 105 110

Thr Gly Gly Glu Glu Glu Arg Lys Arg Gly Gly Arg Gly Arg Gly Gly
115 120 125

Glu Arg Arg Gly Gly Lys Lys Glu Asp Gly Gly Pro Glu
130 135 140

<210> 111
<211> 99
<212> PRT
<213> Homo sapien

<400> 111

Met Gly Arg Trp Glu Glu Ser Gln Ser Thr Gly Gln Gly Glu Asp Ser
1 5 10 15

Gly Ser His Gly Val Ser Pro Thr Ala Ser Ala Pro Leu Cys Cys Trp
20 25 30

Arg Gly Pro Glu Pro His Tyr Ser Leu Tyr Glu Asp Gln Ser Val Phe
35 40 45

Gly Arg Trp Arg Leu Ala His Gly Arg Thr Pro Ser Gly Gly Gly Ser
50 55 60

Ser Val Asn Pro Arg Asn Phe Lys Glu Pro His Ser Val Ser Leu Met
65 70 75 80

Thr Ser His Leu Gln Ile Arg Lys Leu Trp Ile Pro Arg Gly Ser Phe
85 90 95

Gly Ser Ile

<210> 112
<211> 105
<212> PRT
<213> Homo sapien

<400> 112

Gly Ala Gly Gly Tyr Ala Asp Asn Asp Ile Gly Ala Val Ser Thr Thr
1 5 10 15

Gly His Gly Glu Ser Ile Leu Lys Val Asn Leu Ala Arg Leu Thr Leu
20 25 30

Phe His Ile Glu Gln Gly Lys Thr Val Glu Glu Ala Ala Asp Leu Ser
35 40 45

Leu Gly Tyr Met Lys Ser Arg Val Lys Gly Leu Gly Gly Leu Ile Val
50 55 60

Val Ser Lys Thr Gly Asp Trp Val Ala Lys Trp Thr Ser Thr Ser Met
65 70 75 80

Pro Trp Ala Ala Ala Lys Asp Gly Lys Leu His Phe Gly Ile Asp Pro
85 90 95

Asp Asp Thr Thr Ile Thr Asp Leu Pro
100 105

<210> 113
<211> 42
<212> PRT
<213> Homo sapien

<400> 113

Met Ala Thr Pro Pro Ala Lys Cys Leu Ser Gln Asp Leu Asp Ser Ser
1 5 10 15

Pro Trp Asp Pro His Ala Arg Glu Ala Asp Cys Ser Ala Pro Thr Gly
20 25 30

Ser Leu His Glu Val Val Pro Gln His Cys
35 40

<210> 114
<211> 51
<212> PRT
<213> Homo sapien

<400> 114

Met Leu Leu Ser Tyr Ile Ser Gly Arg Phe Leu Ser Thr Arg Lys Glu
1 5 10 15

Asn Thr Gly Leu Ala Lys Gln Gly Pro Leu Phe Gly Ile Ile Phe Val
20 25 30

Pro Asn Lys Gln Ser Arg Gly Trp Val Cys Trp Leu Val Lys Glu Leu
35 40 45

Leu Arg Phe
50

<210> 115
<211> 118
<212> PRT
<213> Homo sapien

<400> 115

Met Asp Glu Arg Arg Pro Gly Arg Tyr Leu Gly Leu Pro Glu Tyr Thr
1 5 10 15

Lys Phe Arg Glu Pro Thr Phe Thr Pro Asp Cys Ala Trp Ser Lys Pro
20 25 30

Glu Ser Ser Leu Pro Arg Gly Leu Phe Gln Pro Ile Pro Leu Phe Trp
35 40 45

Lys Val Ile Leu Gly Ile Glu Thr Glu Asn Trp Asp Lys Gly Ser Leu
50 55 60

Arg Lys Thr Lys Thr Asn Asn Glu Thr Gly Asp Met Leu Phe Ser Leu
65 70 75 80

Asn Pro Ser Gln Ile Cys Cys Leu Ala Leu Thr His Val Glu Ile Cys
85 90 95

Lys Leu Cys Gln Asp Phe Pro Val His Gly Gly Glu Ser His Val Gly
100 105 110

Lys Lys Lys Phe Thr Val
115

<210> 116
<211> 87
<212> PRT
<213> Homo sapien

<400> 116

Met Leu Glu Arg Arg Ser Val Met Asp Trp Ser Arg Arg Gly Leu Trp
1 5 10 15

Glu Pro Gly Leu Gln Cys Gly Leu Pro Arg Pro Pro Gly Pro Ser Ala
20 25 30

Ser Ser Leu Arg Gln Pro Ser Gln Gly Trp Pro Ala Arg Thr Asp Val
35 40 45

Thr Met Pro Arg Ala Pro Ala Pro His Thr Ala Glu Leu Met Met Val

50 55 60

Met Gly Gly Ser Gly Ala Gly Ala Gly Glu Gln Asp Glu Gln Glu Cys
65 70 75 80

Asn Asn Gln Asp Asp Pro Glu
85

<210> 117
<211> 72
<212> PRT
<213> Homo sapien

<400> 117

Met His Val Pro Thr Glu Arg Glu Tyr Ala Cys Val Cys Thr Thr Asn
1 5 10 15

Thr Ser Cys Cys Ala Gly Ala Gly Ser Ser Gly Asn Ala Arg Gly Glu
20 25 30

His Ala Leu Leu Val Ile His Ile His Ser Tyr Ala Val His Thr Gln
35 40 45

His Pro Pro Arg Ala Cys Leu Pro Asn Arg Trp Leu Asn Phe Leu Leu
50 55 60

Ser Tyr Arg Arg Pro Asp Pro Thr
65 70

<210> 118
<211> 48
<212> PRT
<213> Homo sapien

<400> 118

Met Asn Pro Arg Ile Asn Thr Leu Asp Val Leu Leu Leu Cys His Val
1 5 10 15

Asn Arg Gly Leu Arg Ala Val Phe His Leu Val Pro Phe Ser Glu Asp
20 25 30

Gln Ile Pro Arg Leu Gln Ser Met Gln Gly Leu His Arg Trp Leu Leu
35 40 45

<210> 119
<211> 19

<212> PRT
<213> Homo sapien

<400> 119

Met Thr Trp Thr Asn Arg Lys Tyr Ser Phe Asn Leu Phe Leu Leu Leu
1 5 10 15

Phe Asn Leu

<210> 120
<211> 60
<212> PRT
<213> Homo sapien

<400> 120

Met Thr Phe Gly Val Pro Asn Ser Val Ser Thr Leu Thr Ser Lys Lys
1 5 10 15

Lys Lys Arg Lys Lys Lys Lys Gly Arg Gly Val Pro Trp Gly Asn Ser
20 25 30

Cys Pro Gly Gly Gly Ile Val Phe Pro Val Pro Ile Pro Pro Ile Phe
35 40 45

His Asn Asn Gly Glu Pro Gly Gln Lys Arg Lys Thr
50 55 60

<210> 121
<211> 147
<212> PRT
<213> Homo sapien

<400> 121

Met Leu Leu Glu Arg Arg His Cys Asp Gly Cys Val Val Ala Pro Arg
1 5 10 15

Leu Cys Val Lys Arg Glu Ala Glu Gly Asp Val Ser Pro Asp Ile Ser
20 25 30

Lys Val Trp Val Gly Pro Leu Val Pro Glu Ile Leu Leu Gly Gly Met
35 40 45

Gly Pro Ala Leu Ser Gly Thr Lys Ile Arg Ala Arg Lys Arg Cys Pro
50 55 60

Ser Pro Ile Leu Ser Ile Leu Phe Met Ala Glu Lys Ile Ser Ala Gly
65 70 75 80

Cys Gln His Val Pro Met Pro Val Glu Asp Met Pro Thr Ser Pro Leu
85 90 95

Pro Arg Glu Gln Asp Leu Gly Leu Gly Gln Val Glu Lys Ile Pro Asp
100 105 110

Phe Phe Ser Thr Val Phe Val Leu Met Val Tyr Phe Tyr Trp Leu Leu
115 120 125

Tyr Cys Leu Gly Gln Val Val Val Ala Phe Leu Ile Tyr Trp Gly Thr
130 135 140

Phe Leu Ile
145

<210> 122
<211> 121
<212> PRT
<213> Homo sapien

<400> 122

Met Val Arg Ile Leu Ala Asn Gly Glu Ile Val Gln Asp Asp Asp Pro
1 5 10 15

Arg Val Arg Thr Thr Thr Gln Pro Pro Arg Gly Ser Ile Pro Arg Gln
20 25 30

Ser Phe Phe Asn Arg Gly His Gly Ala Pro Pro Gly Gly Pro Gly Pro
35 40 45

Arg Gln Gln Gln Ala Gly Ala Arg Leu Gly Ala Ala Gln Ser Pro Phe
50 55 60

Asn Asp Leu Asn Arg Gln Leu Val Asn Met Gly Phe Pro Gln Trp His
65 70 75 80

Leu Gly Asn His Ala Val Glu Pro Val Thr Ser Ile Leu Leu Leu Phe
85 90 95

Leu Leu Met Met Leu Gly Val Arg Gly Leu Leu Leu Val Gly Leu Val
100 105 110

Tyr Leu Val Ser His Leu Ser Gln Arg
        115   120

<210> 123
<211> 129
<212> PRT
<213> Homo sapien

<400> 123

Met Glu Ala Arg Arg His Ala Leu Gly Gly Ser Val Leu Trp Gln Ser
1   5   10   15

Gln Val Leu Phe Asn Phe Val Gln Arg Lys Gly Glu Pro Gly Phe Gly
            20   25   30

Ile Ser Val Val Arg Glu Arg Arg Val His Ser Asn His Gly Cys Pro
        35   40   45

Val Leu Ile Gln Ala Gly Ile Trp Ser Met Met Ser Val Gly Arg Ala
    50   55   60

Arg Arg Ala Arg Arg Thr Ala Ala Ser Tyr Pro Gly Pro Val Arg Ala
65   70   75   80

Tyr Leu His His Ala Arg Gly Gly Gln Glu Pro Pro Pro Ala Val Pro
                85   90   95

Ala Arg Ala Gly Ser Ile Thr Leu Ser Pro Leu Glu Met Ile Arg Gly
            100   105   110

Pro Ser Pro Tyr Glu Ser Ile Ser Tyr Leu Ser Arg Gly Val Phe Leu
        115   120   125

Leu

<210> 124
<211> 74
<212> PRT
<213> Homo sapien

<400> 124

Met Lys Ile Tyr Leu Ser Ser Leu Ile Leu Gln Val Thr Ile Ile Leu
1   5   10   15

Asn Pro Ile Lys Ser Trp Ala Val Ala Arg Phe Phe Phe Phe Phe Arg

20 25 30

Gly Gly Pro Lys Glu Ala Ser Gln Gly Arg Leu Pro Gly Leu Cys Pro
35 40 45

Pro Pro Leu Ala Phe Ala Leu Cys Ser Gln Cys Ser Ser Ser Lys Arg
50 55 60

Ala Ser Leu Ser Pro Gln Pro Pro Pro Cys
65 70

<210> 125
<211> 94
<212> PRT
<213> Homo sapien

<400> 125

Met His Ser Gly Trp Glu Trp Trp Leu Met Pro Val Ile Pro Ala Val
1 5 10 15

Cys Gly Gly Pro Gln Val Asp Arg Leu Phe Asp Ala Gln Ala Val Arg
20 25 30

Asp Gln Pro Gly Val Thr Met Gly Gly Thr Pro Asn Leu Tyr Gln Lys
35 40 45

Lys Lys Lys Asn Thr Lys Val Val Trp Val Arg Gly Arg Met Pro Val
50 55 60

Val Pro Lys Phe Pro Ala Thr Leu Leu Gly Arg Leu Arg Gln Lys Gly
65 70 75 80

Ser Pro Glu Pro Arg Glu Gly Pro Arg Leu Ala Val Ser Pro
85 90

<210> 126
<211> 114
<212> PRT
<213> Homo sapien

<400> 126

Met Val Ser Leu Trp Val Glu Asp Thr Phe Leu Ser Pro Gly Phe Gly
1 5 10 15

Phe Ala His Val Ala Cys Ser Gly Leu Gly Met Lys Gln Lys Arg Lys
20 25 30

Ala Ala Ser Ser Glu Pro Thr Ser Glu Val Ala Leu Gly Gly Ser Ala
35 40 45

Gly Pro Val Arg Ser His Leu His Pro Glu Gly Leu Leu Trp Cys Ser
50 55 60

Arg Cys Phe Phe Ser Leu Arg Pro Lys Gly Thr Glu Pro Pro Gly Arg
65 70 75 80

Ser Ala Gly Leu Gln Gly Ala Thr Glu Arg Ser Gly Trp Thr Ser Val
85 90 95

Gln Ala Gln Ala Gln Ala Cys Glu Asn Leu Val Pro Ala Ala Val Ala
100 105 110

Asp Gly

<210> 127
<211> 27
<212> PRT
<213> Homo sapien

<400> 127

Met Asn Ser Phe Tyr Cys Lys Gln Thr Ser Lys Leu Ile Ser Pro Pro
1 5 10 15

Thr Phe Phe Arg Lys Lys Lys Lys Ser Ala Gly
20 25

<210> 128
<211> 59
<212> PRT
<213> Homo sapien

<400> 128

Met Tyr Ser Tyr Asn Gly Ile Leu Phe Asp Asn Lys Asn Lys Trp Ser
1 5 10 15

Ala Ser Thr Cys Tyr Asn Lys Lys Lys Lys Lys Lys Lys Thr Leu Gly
20 25 30

Leu Ser His Gly Ser Tyr Leu Phe Pro Cys Phe Asp Ile Phe Phe Pro
35 40 45

Leu Pro Ile Ser Thr Gln Ile Leu Thr Gln Ile
50 55

<210> 129
<211> 110
<212> PRT
<213> Homo sapien

<400> 129

Met Lys Pro Arg Thr Leu Gly Pro Ser Leu Lys Ile Pro Ala Pro Gly
1 5 10 15

Cys Gly Lys Leu His Ala Pro Ser Phe Ser Ser Thr Leu Met Leu Pro
20 25 30

Gly Val Cys Ser Tyr Arg Thr Pro Thr Pro Ala Thr Leu Gln Glu Asp
35 40 45

Gly Lys Pro Gln Thr Pro Leu His Ser Lys Glu Ser His Gln Ala Thr
50 55 60

Arg Gly Ile Gln Leu Ala Pro Ser Leu His Met Val Gly Gly Asp Gln
65 70 75 80

Arg His Gly Thr Asp Ala Gly Cys Ala Leu Trp Pro Pro Asn Leu Ile
85 90 95

Leu Val Thr Ser Pro Phe Ala Thr Met Arg Ala Gln Glu Met
100 105 110